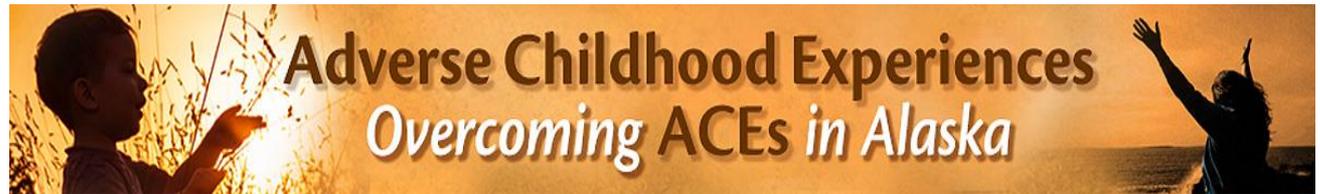


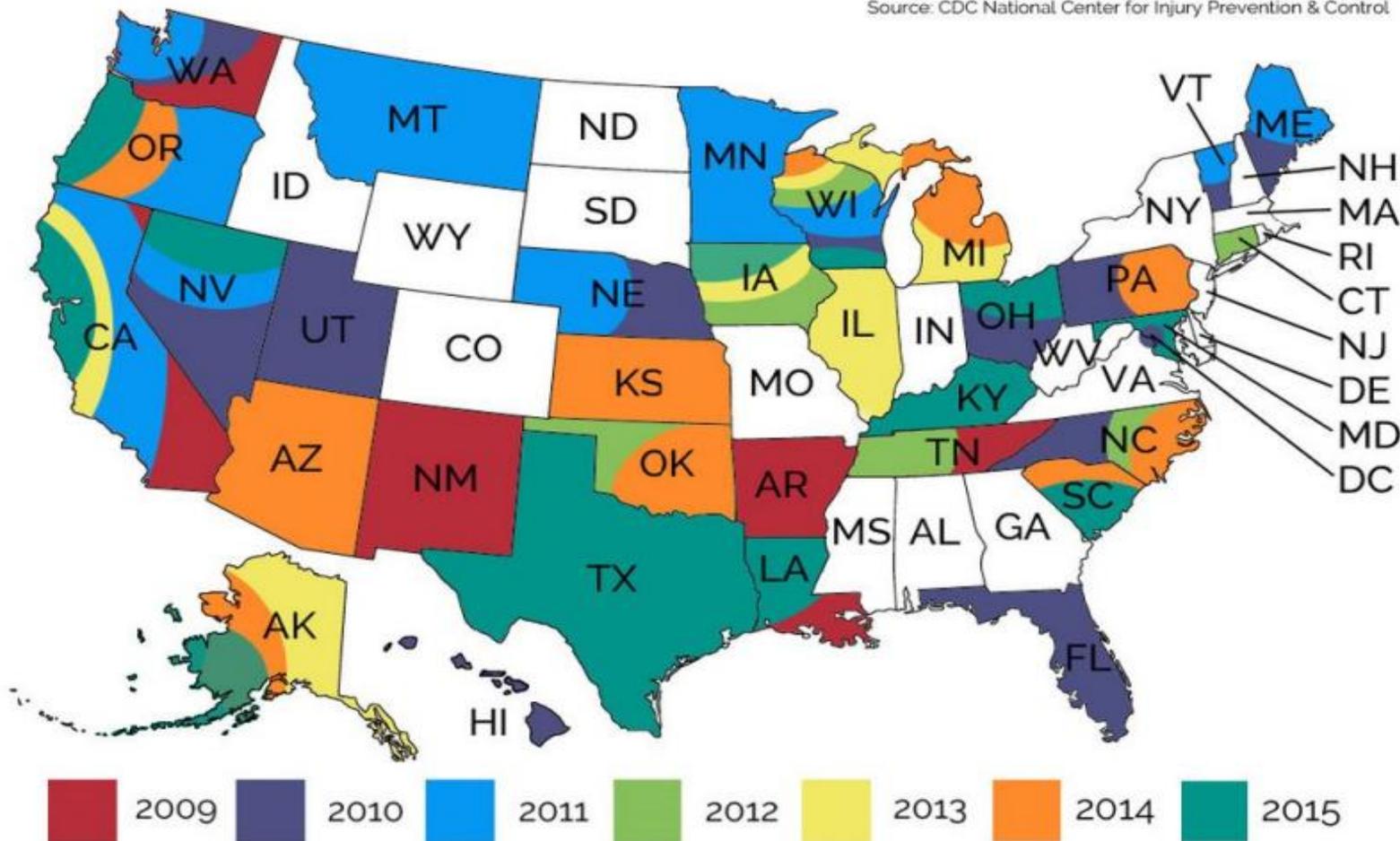
ADVERSE CHILDHOOD EXPERIENCES IN ALASKA

Results from the 2013-2015 BRFSS



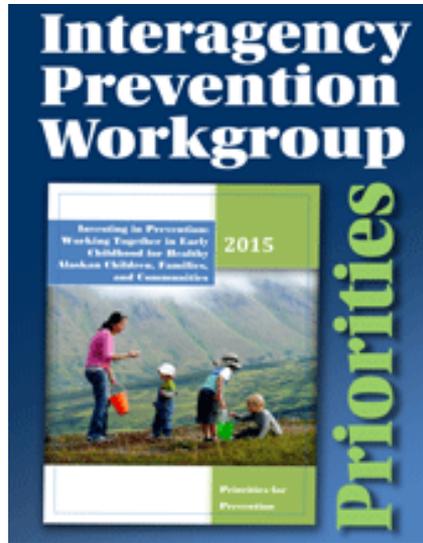
States Collecting ACEs Data 2009 - 2015

Source: CDC National Center for Injury Prevention & Control



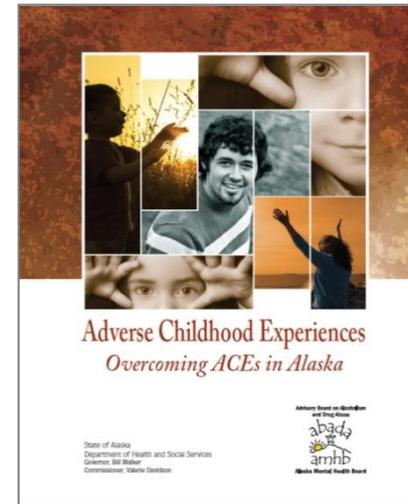
SOME PRODUCTS CREATED BY THIS EFFORT

– AS OF APRIL 2017



Economic Costs of Adverse Childhood Experiences in Alaska

The Price of Not Intervening
Before Trauma Occurs



What are Adverse Childhood Experiences - Adults

Adverse childhood experiences are events prior to age eighteen which have been shown to impose sometimes damaging levels of stress on children's development. Changes in the brain structure and therefore functioning caused by the highest levels of stress are linked with an increase in the likelihood of many poor social, emotional and health outcomes long into adulthood.

Alaska is one of more than 30 states which has collected ACE data through an annual health survey (Behavioral Risk Factor Surveillance Survey) conducted every year in all the states. Adults were asked about the events listed below which may have occurred prior to their 18th birthday.

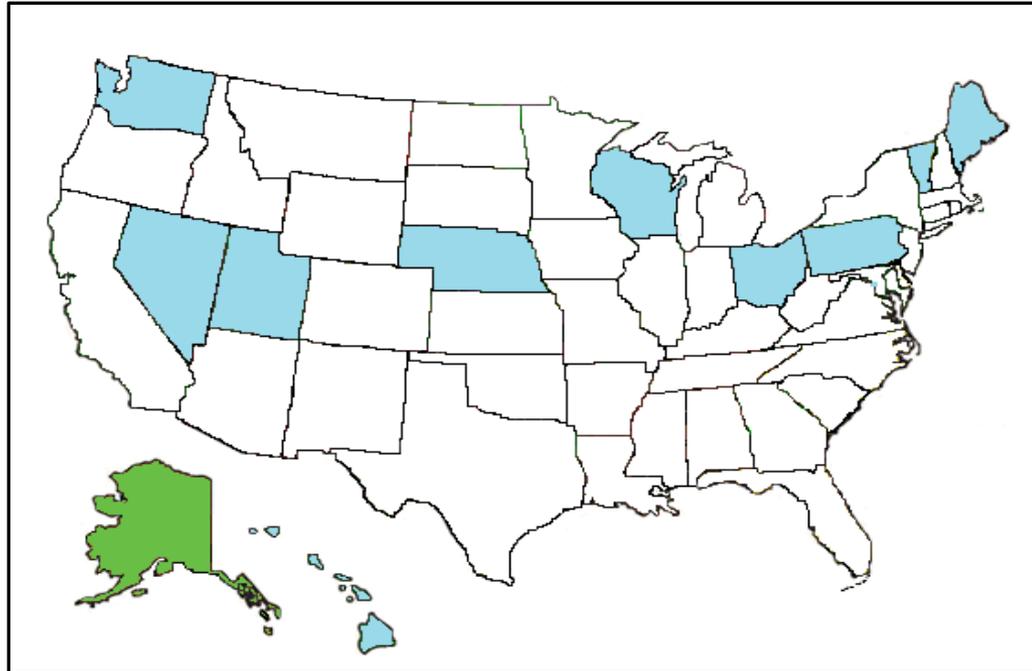
- Physical abuse
- Emotional abuse
- Sexual abuse
- Substance abuse in the household
- Incarcerated household member
- Mental illness in the household
- Witnessed domestic violence
- Parental separation/divorce

States Collecting ACEs Data 2009 - 2015

Learn more at: dhs.alaska.gov/abada/ace-ak/Pages/default.aspx

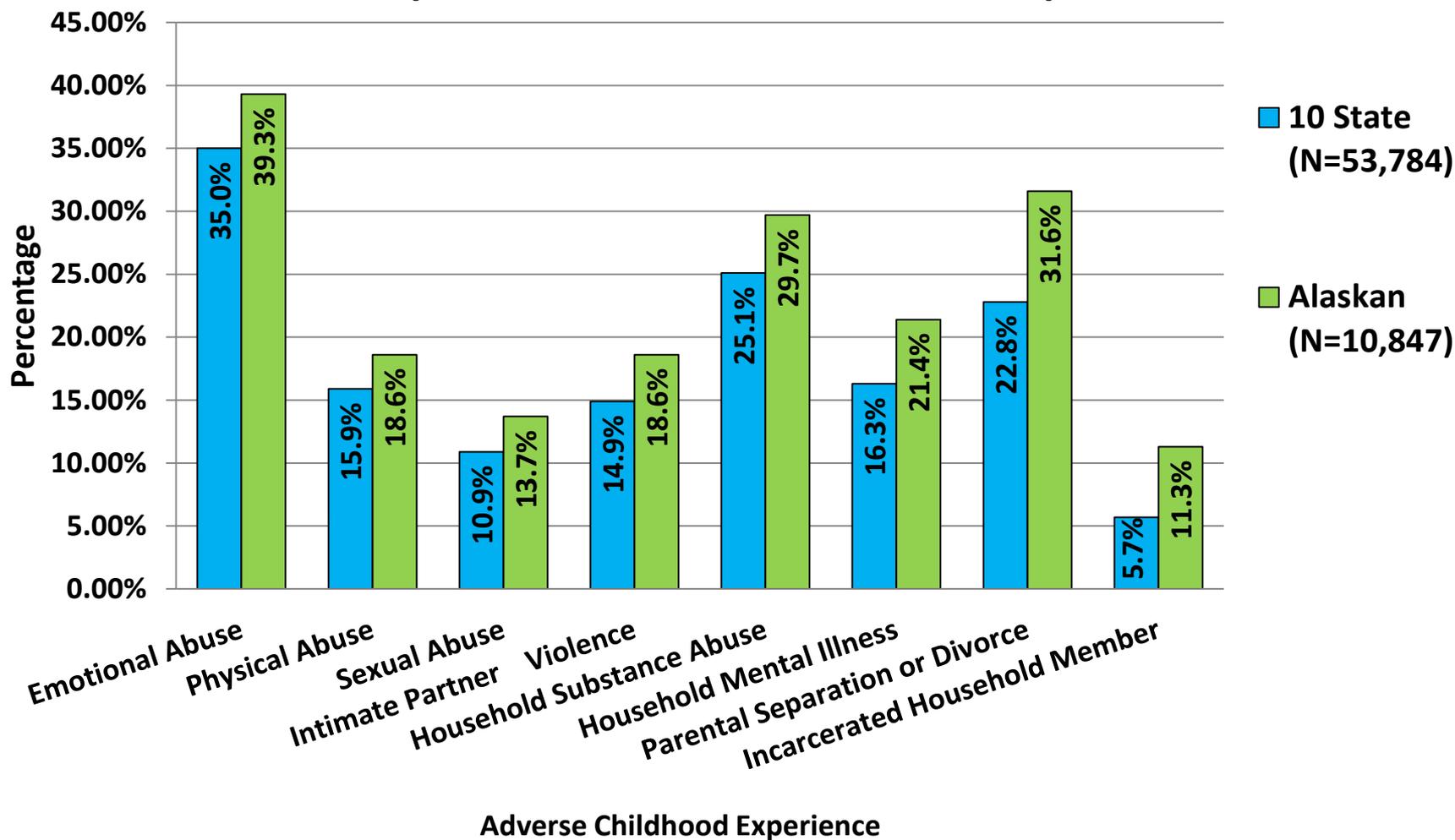


Ten State and DC - ACE Results



The prevalence estimates reported are from **Washington, DC** and ten states (**HAWAII, MAINE, NEBRASKA, NEVADA, OHIO, PENNSYLVANIA, UTAH, VERMONT, WASHINGTON, and WISCONSIN**) who included the ACE module on the 2010 BRFSS (n=53,784)

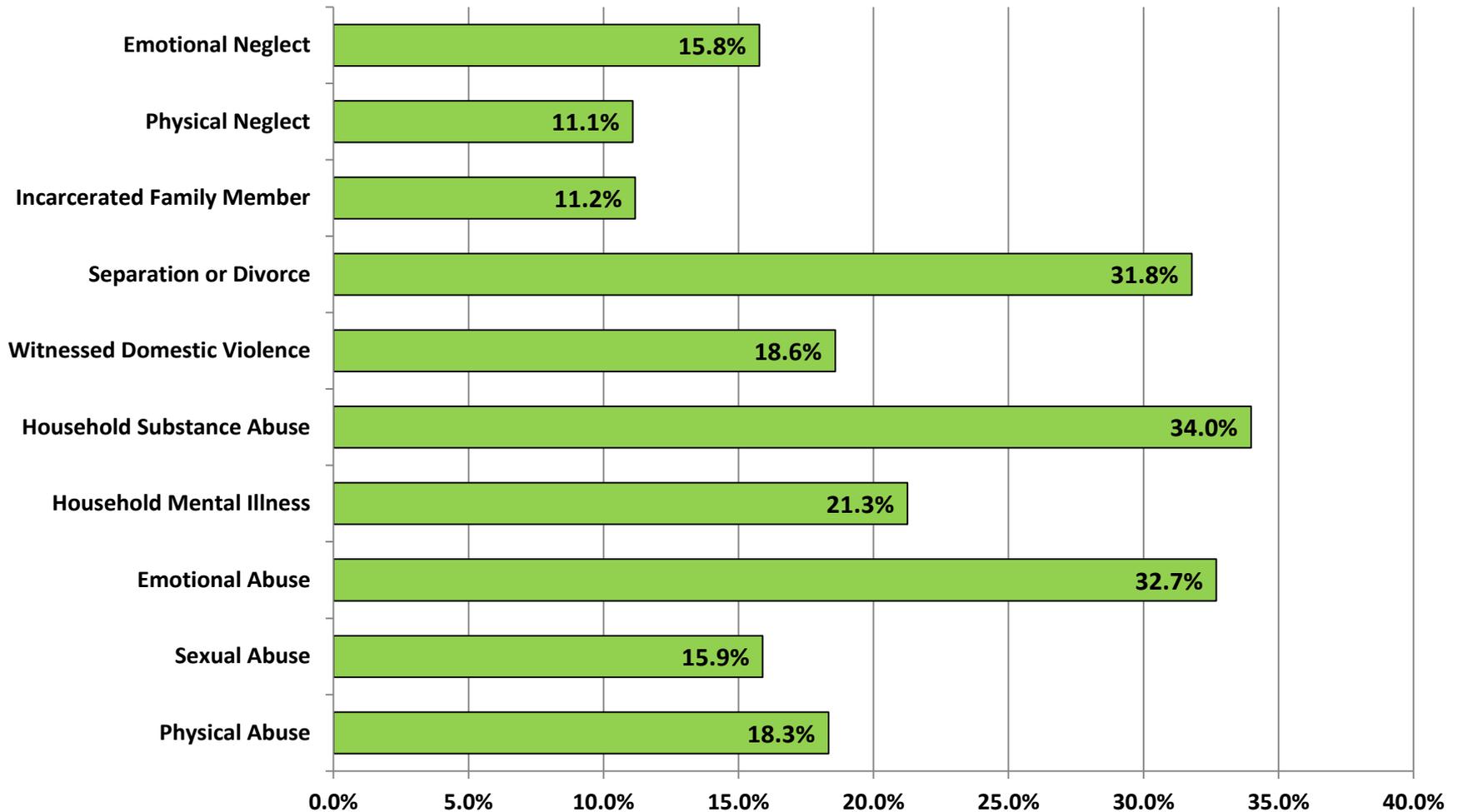
Percentage of Alaskan Adults' Adverse Childhood Experiences Compared to a Ten State and D.C. Sample*



*In the category of Emotional Abuse the Ten State & DC Study used all positive answers (once and more than once) as a measure of indicating the presence of that ACE. This hasn't been done in other BRFSS ACE studies but in this comparison it was used with the Alaska data to provide a comparable rate between the two populations.

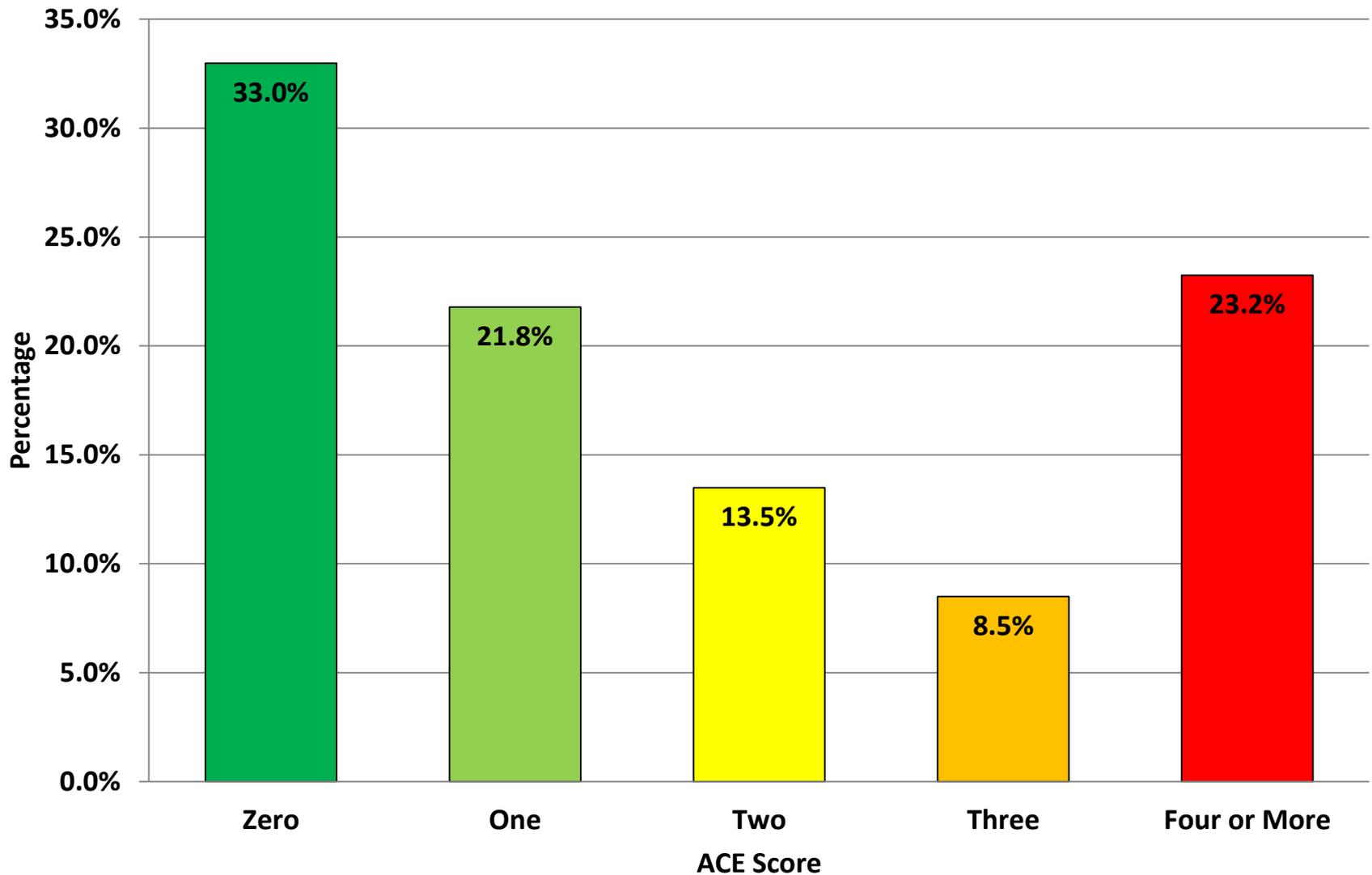
Sources: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Centers for Disease Control and Prevention. *Behavioral Risk Factor Surveillance System Survey ACE Module Data, 2010*

Percentage of Alaskan Adults who Reported Individual ACEs by Type



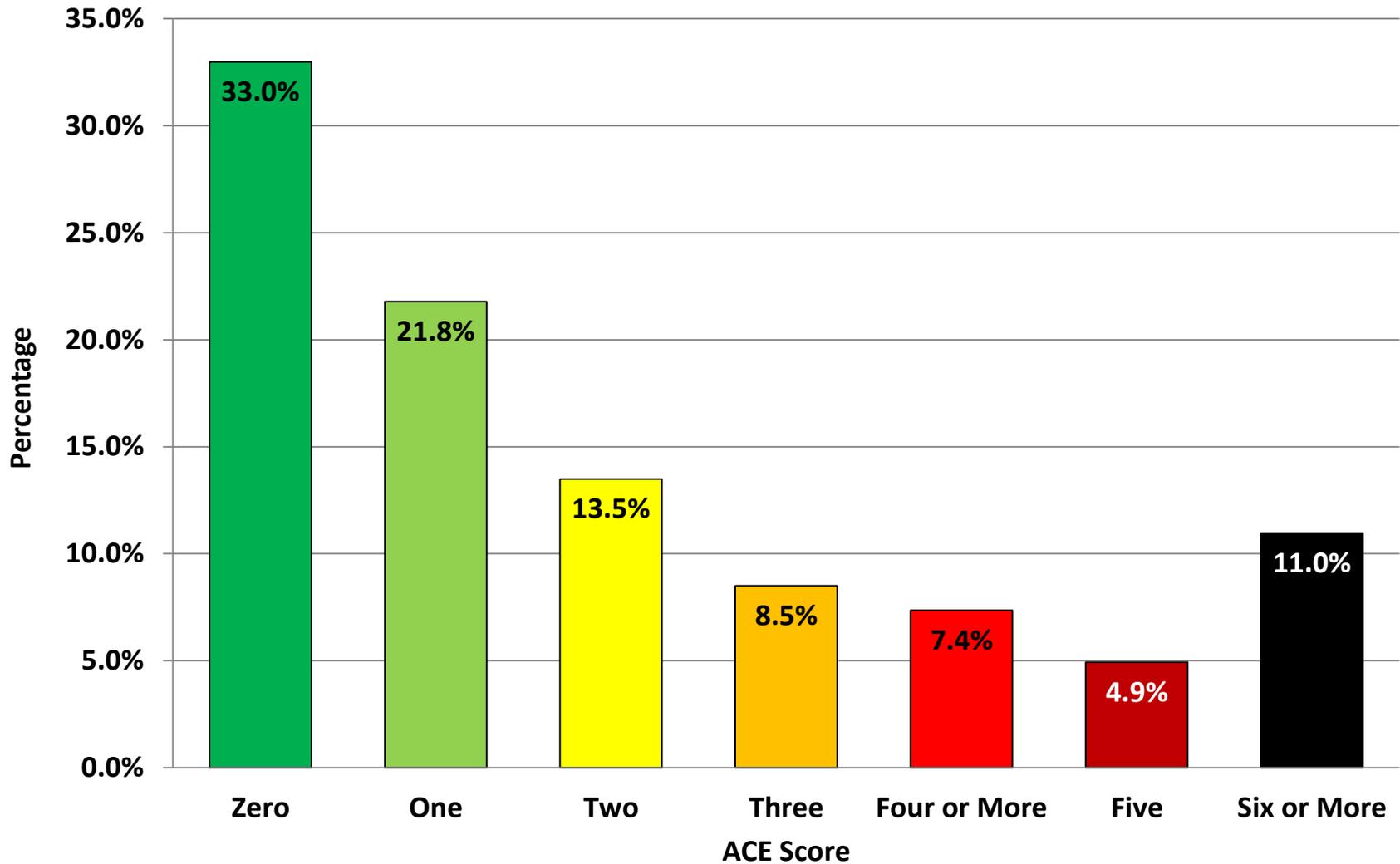
Sources: 2014-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, & Centers for Disease Control and Prevention. *Behavioral Risk Factor Surveillance System Survey ACE Module Data, 2010*

ACE Scores for Alaskan Adults Based on Ten Possible ACEs

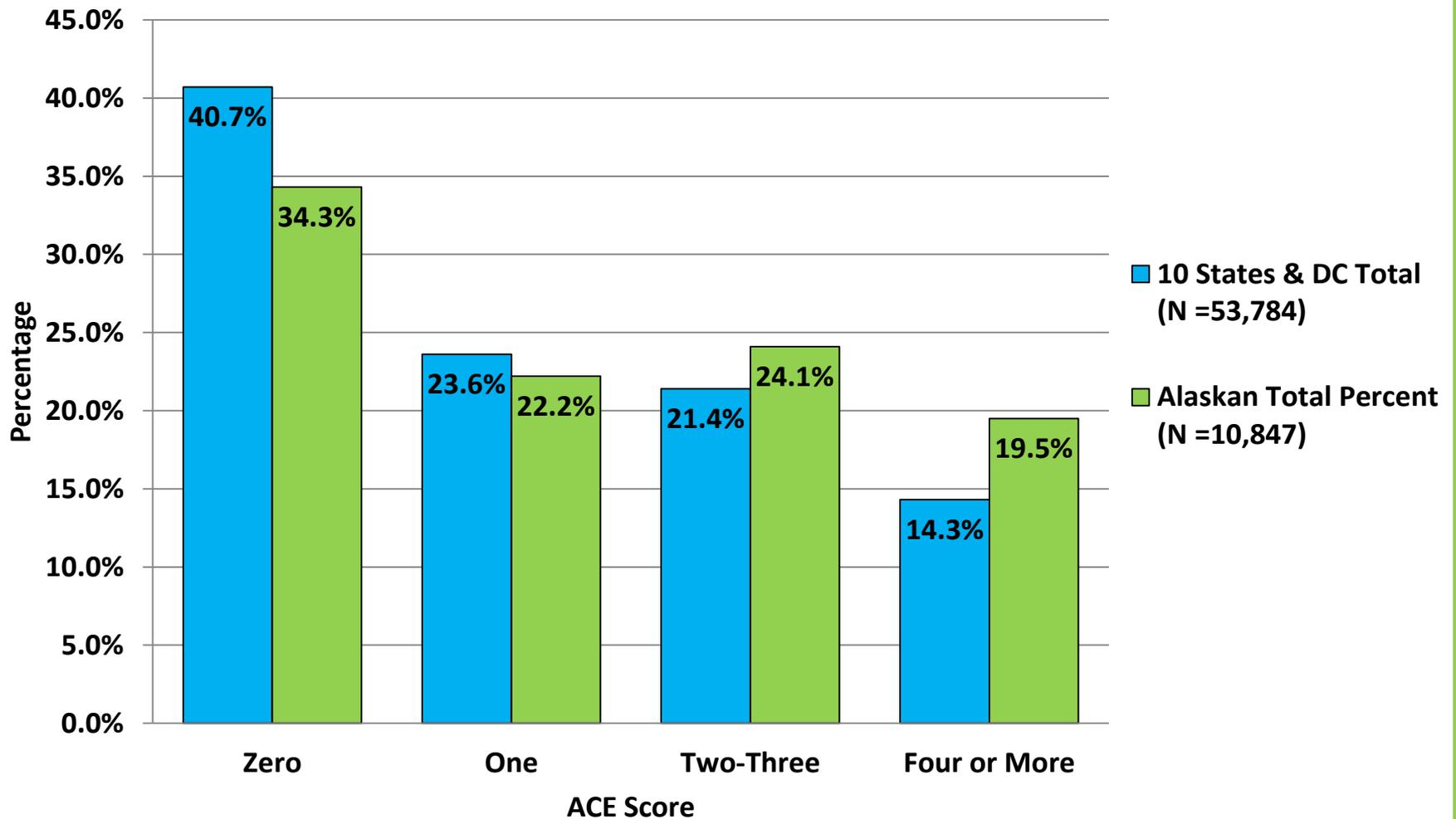


Sources: 2014-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, & Centers for Disease Control and Prevention. *Behavioral Risk Factor Surveillance System Survey ACE Module Data, 2010*

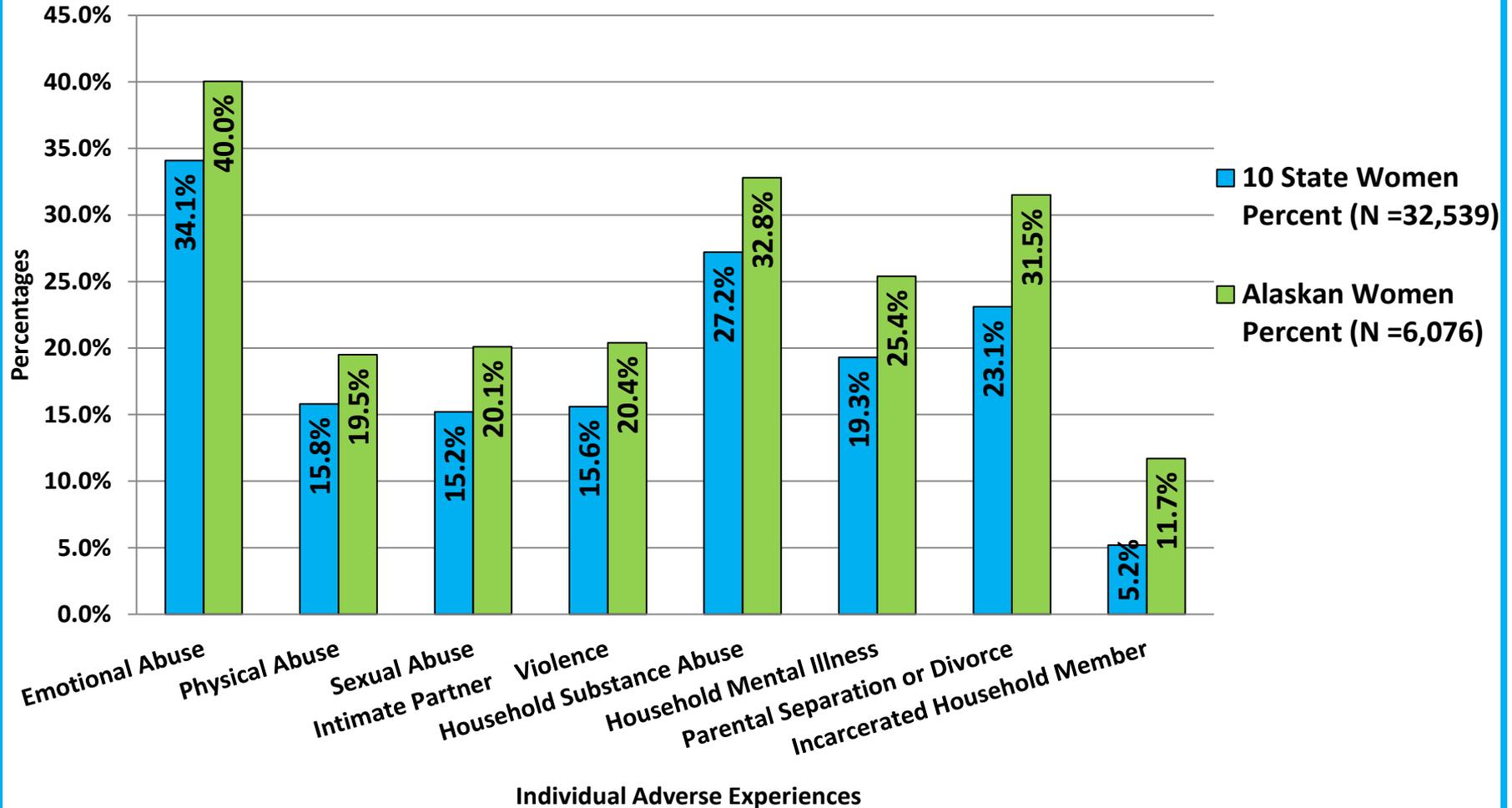
ACE Scores for Alaskan Adults Based on Ten Possible ACEs



ACE Scores for Alaskan Adults and The Ten State and DC Sample



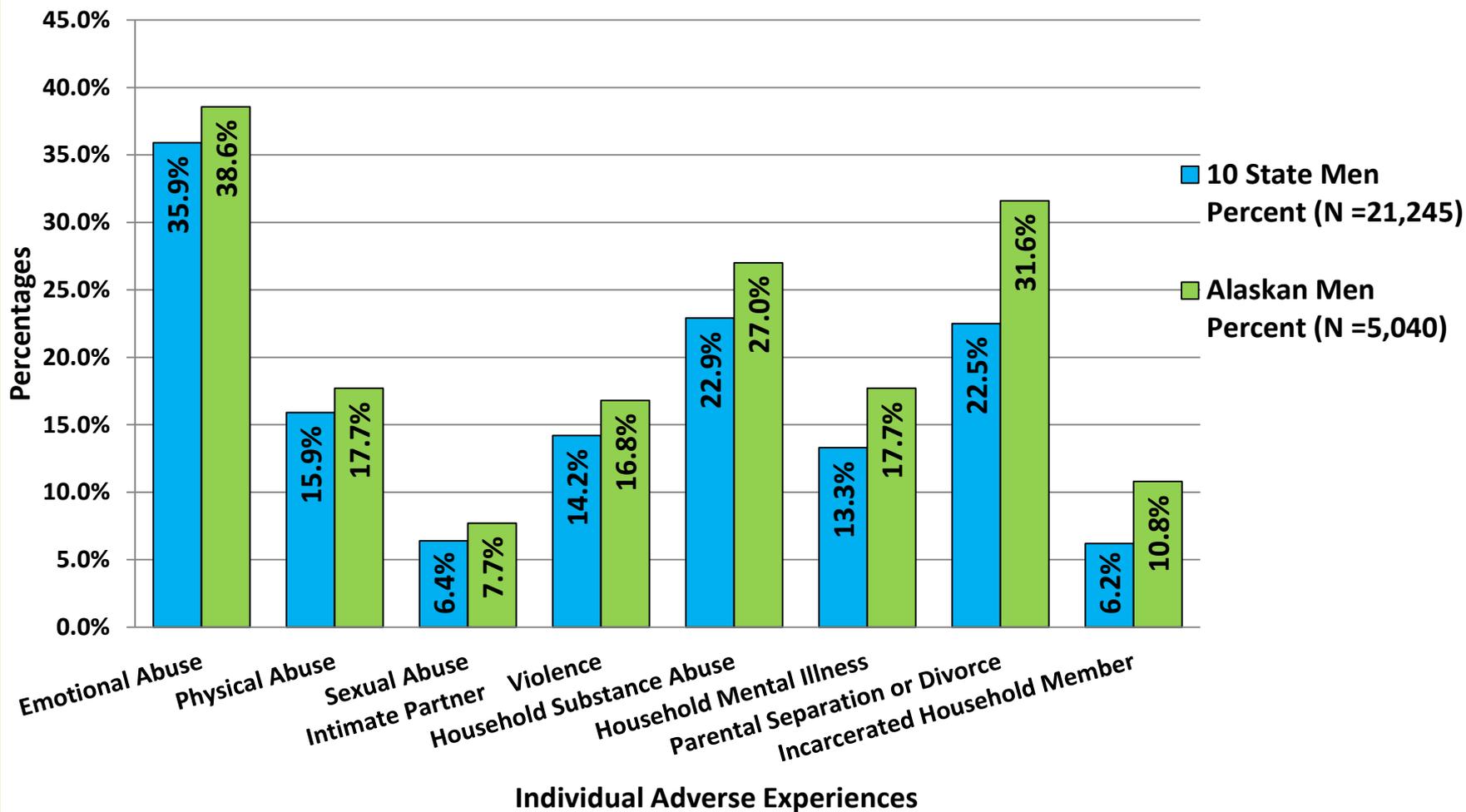
Percentage of Alaskan Women and Their Peers in a Ten State and D.C. Sample of Individual ACEs



*In the category of Emotional Abuse the Ten State & DC Study used all positive answers (once and more than once) as a measure of indicating the presence of that ACE. This hasn't been done in other BRFSS ACE studies but in this comparison it was used with the Alaska data to provide a comparable rate between the two populations.

Sources: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, & Centers for Disease Control and Prevention. *Behavioral Risk Factor Surveillance System Survey ACE Module Data, 2010*

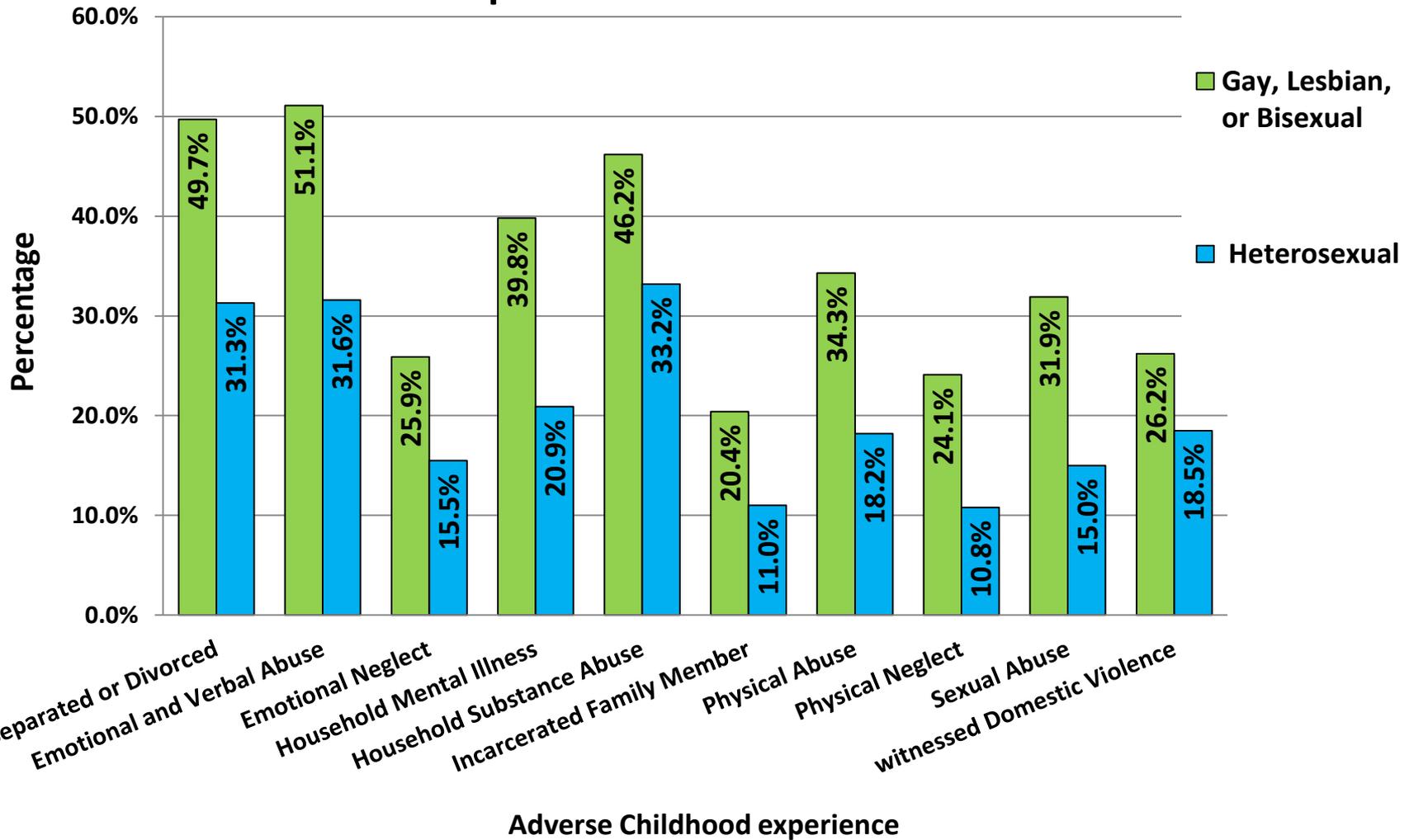
Percentage of Alaskan Men and Their Peers in a Ten State and D.C. Sample of Individual ACEs



*In the category of Emotional Abuse the Ten State & DC Study used all positive answers (once and more than once) as a measure of indicating the presence of that ACE. This hasn't been done in other BRFSS ACE studies but in this comparison it was used with the Alaska data to provide a comparable rate between the two populations.

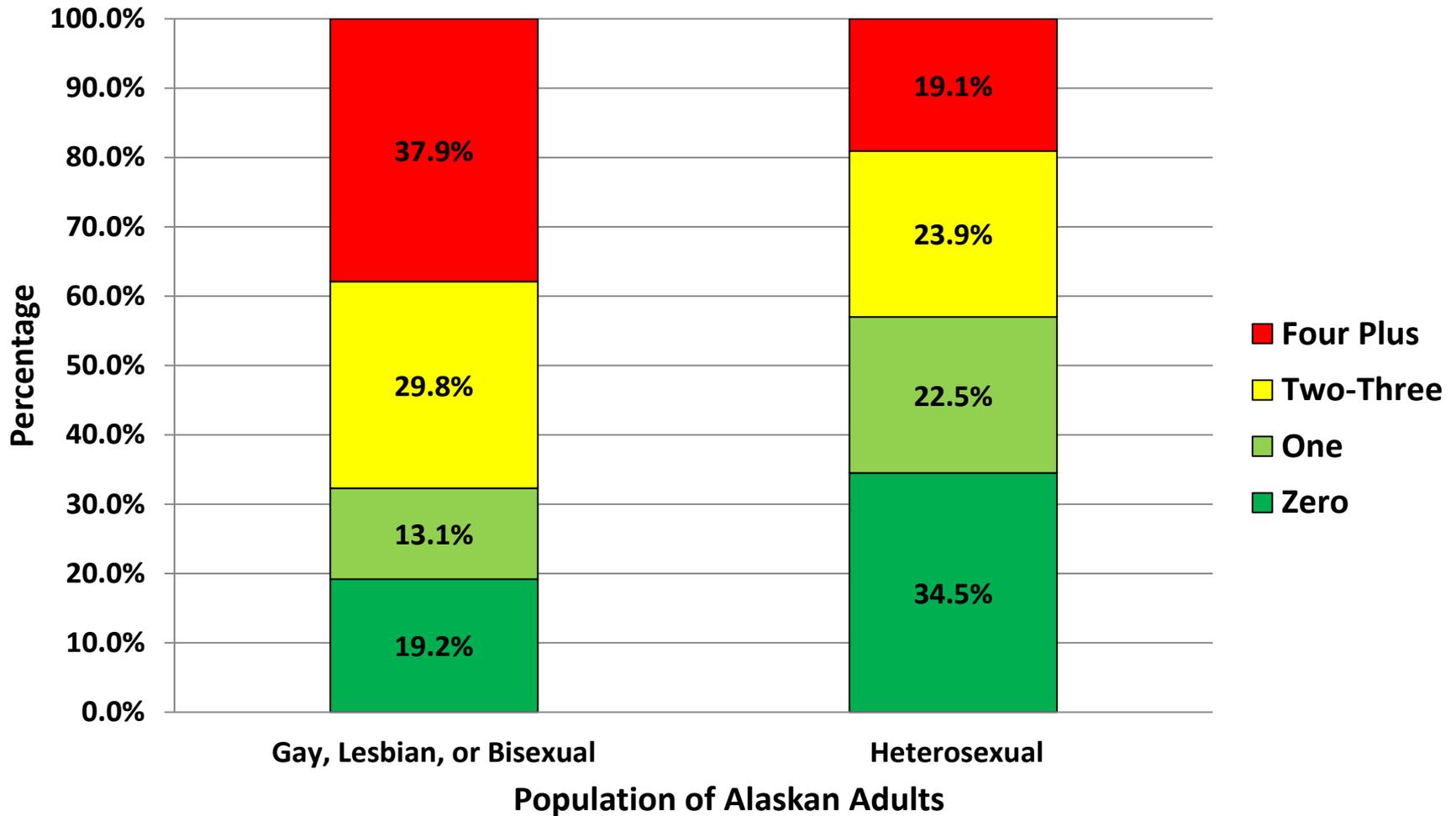
Sources: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, & Centers for Disease Control and Prevention. *Behavioral Risk Factor Surveillance System Survey ACE Module Data, 2010*

Percentage of Alaskan Adults Reporting Individual ACEs by Reported Sexual Orientation

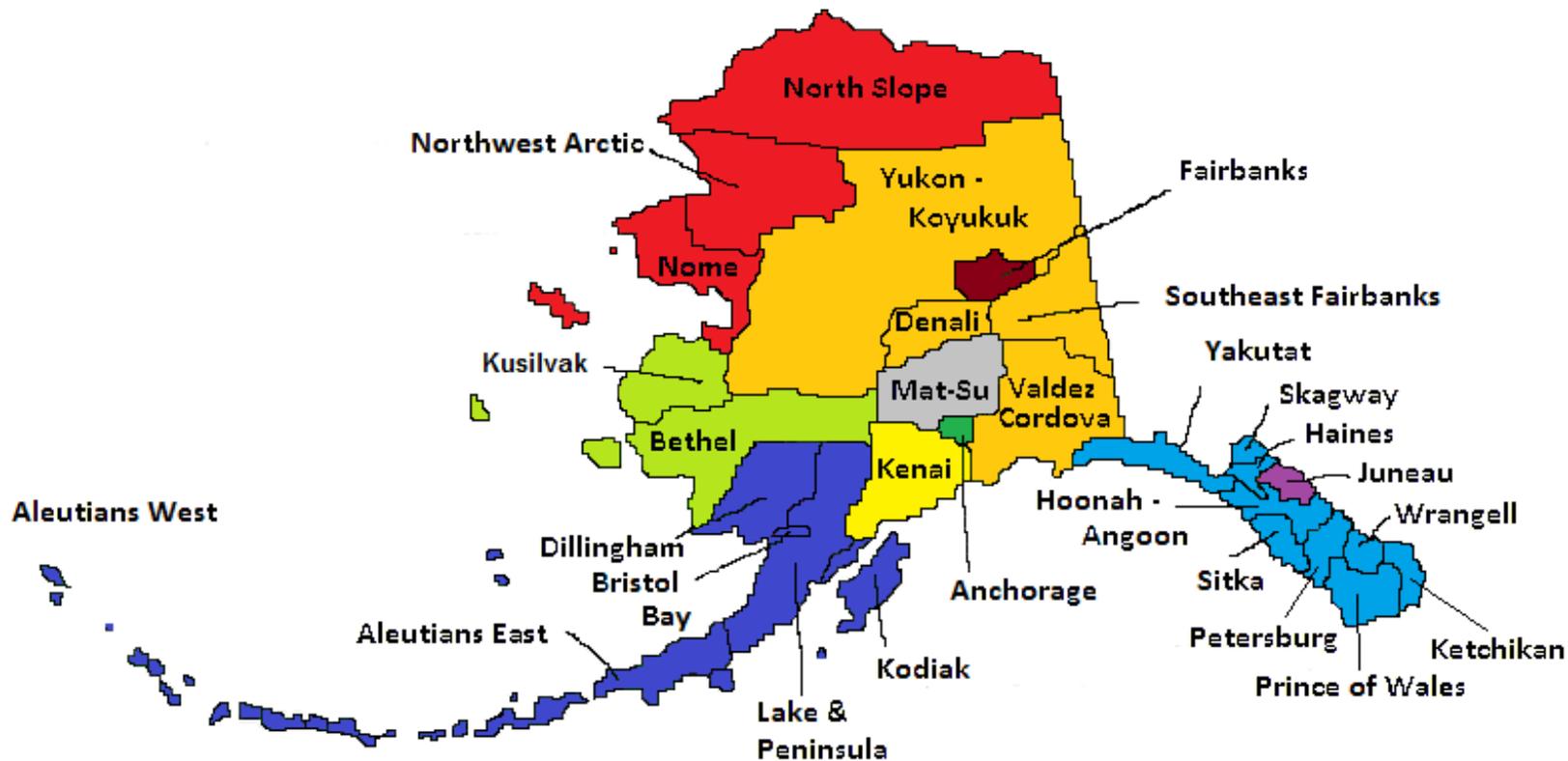


Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

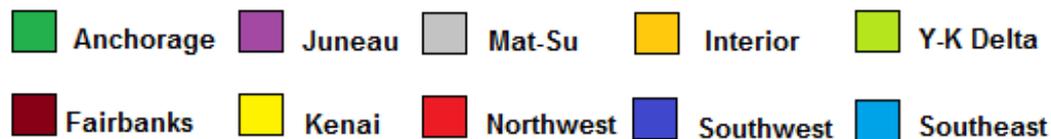
Percentage of Reported Adverse Childhood Experiences for Alaskan Adults by Reported Sexual Orientation



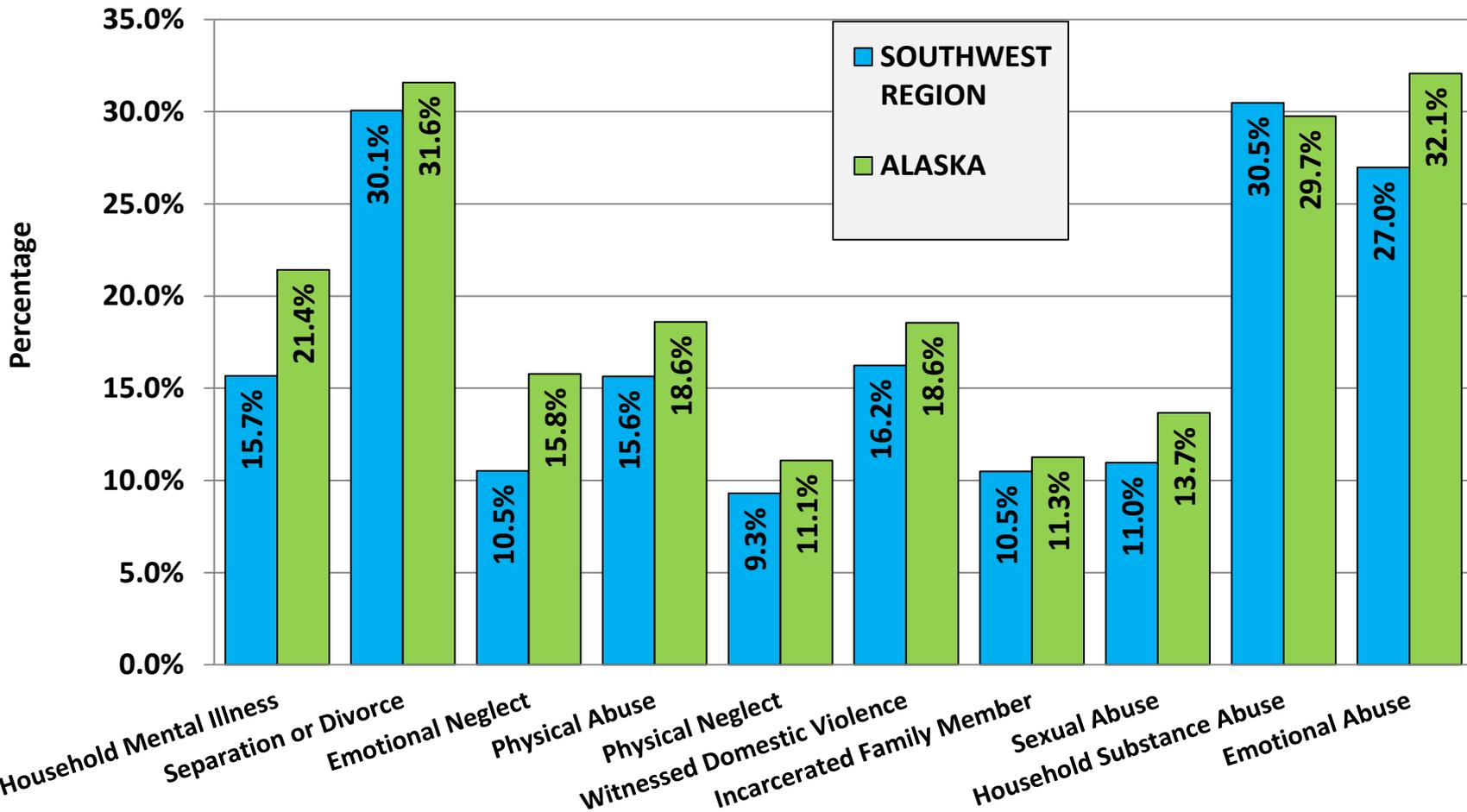
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health



Behavioral Health Regions



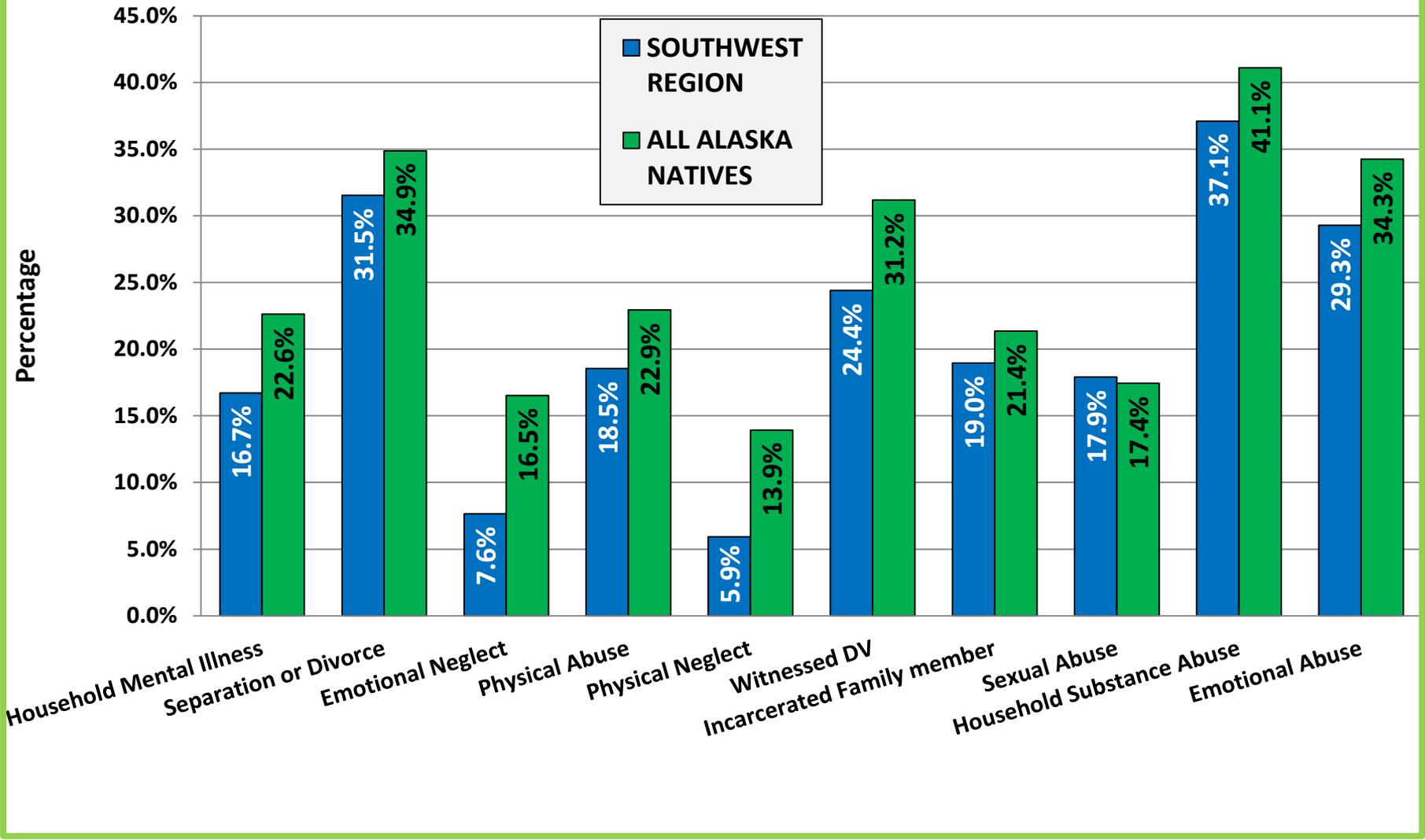
Southwest Behavioral Health Region and Statewide Percentage of Individual ACEs



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

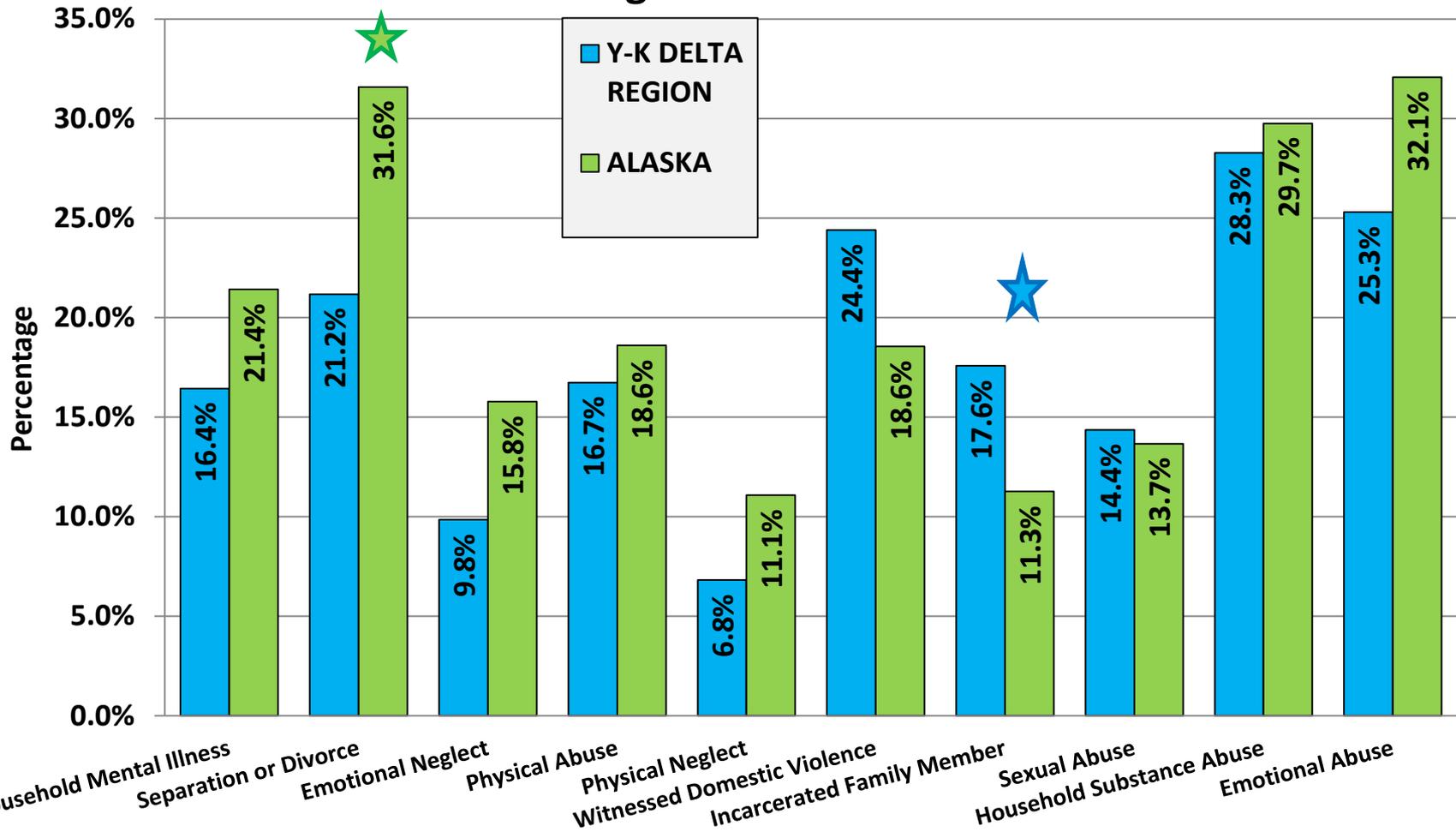
Note: No statistical difference between state and regional measures.

Southwest Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

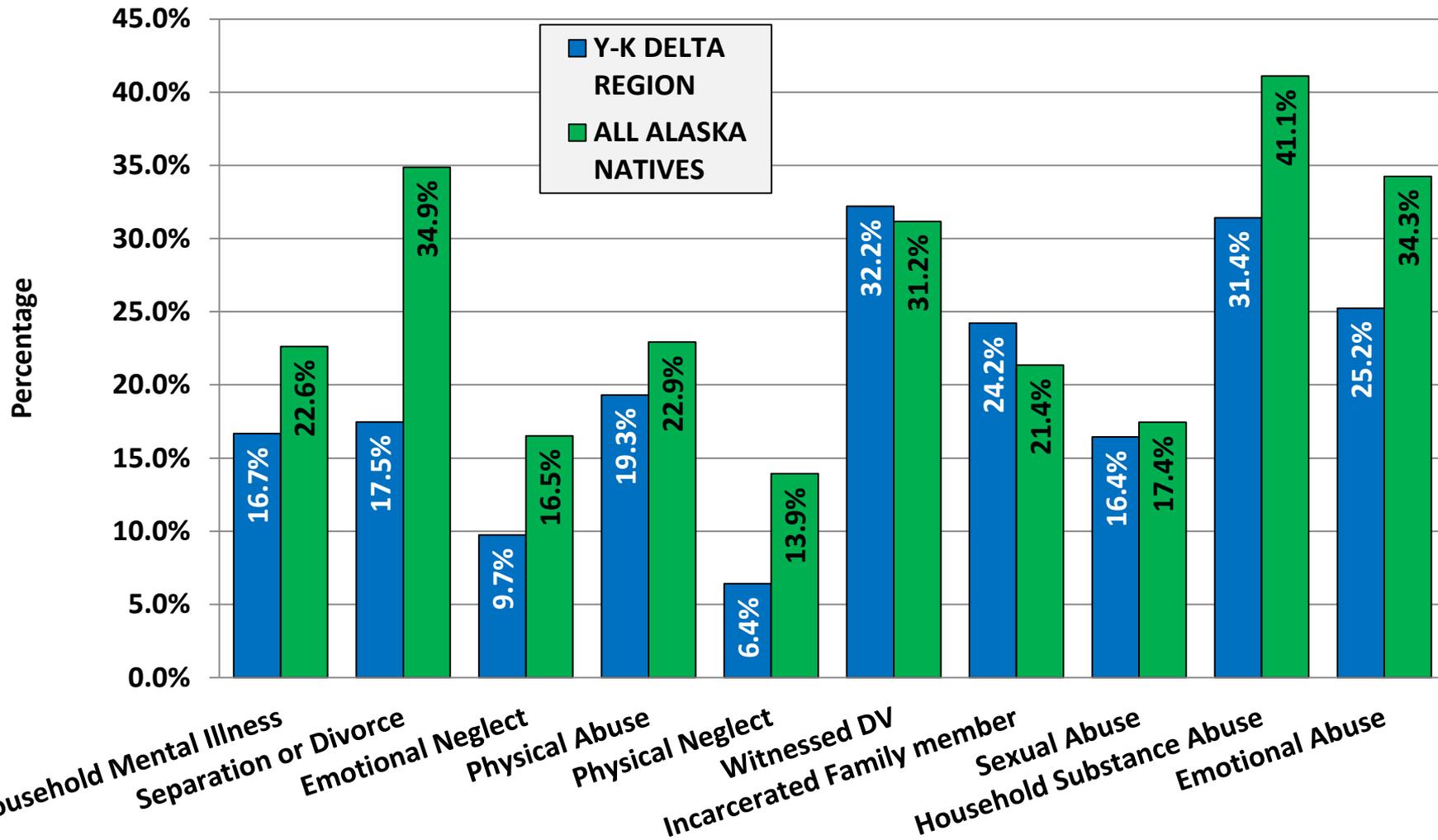
Y-K Delta Behavioral Health Region and Statewide Percentage of Individual ACEs



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

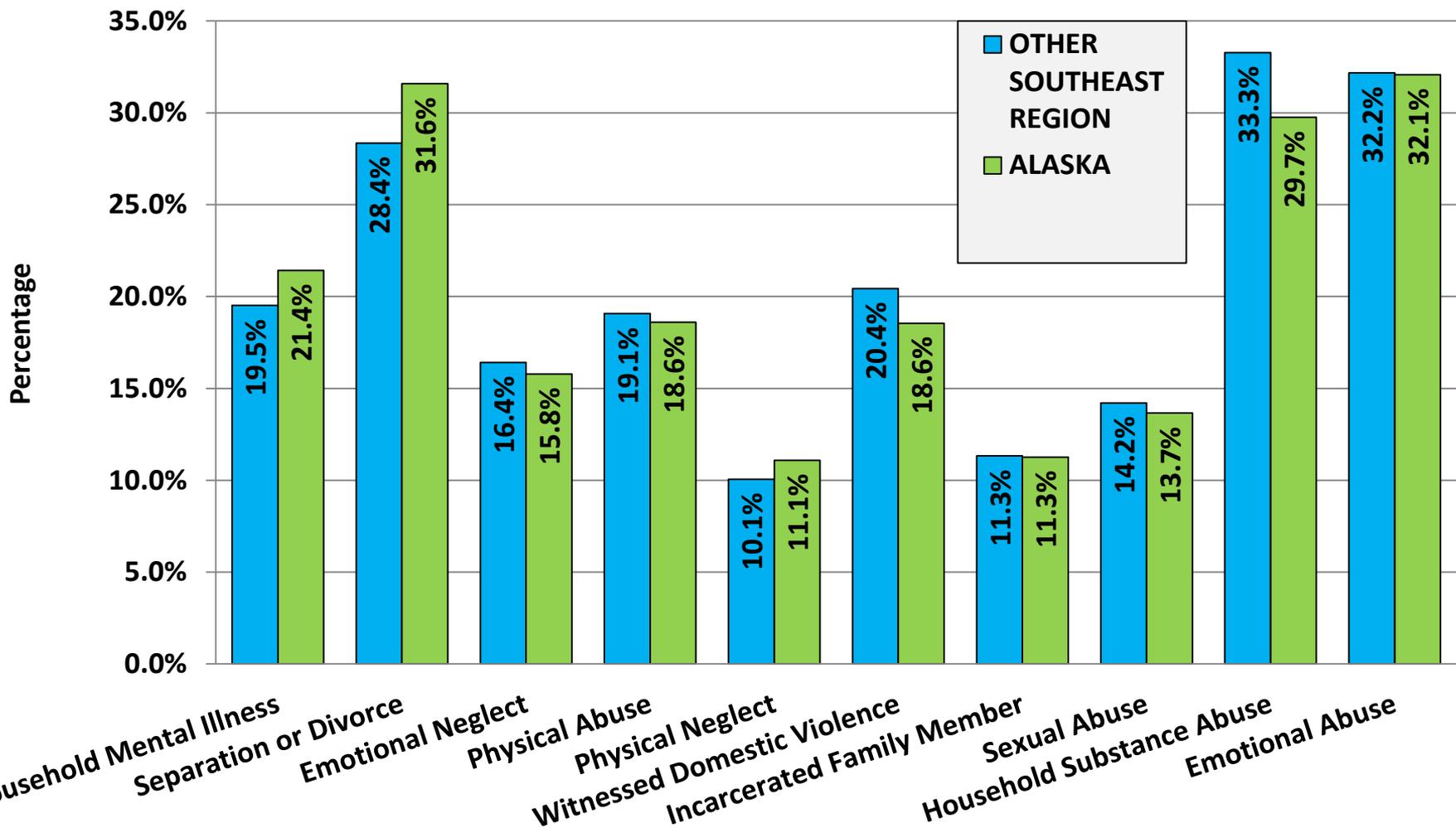
Note: Statistical difference between state and regional measures are starred.

Y-K Delta Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

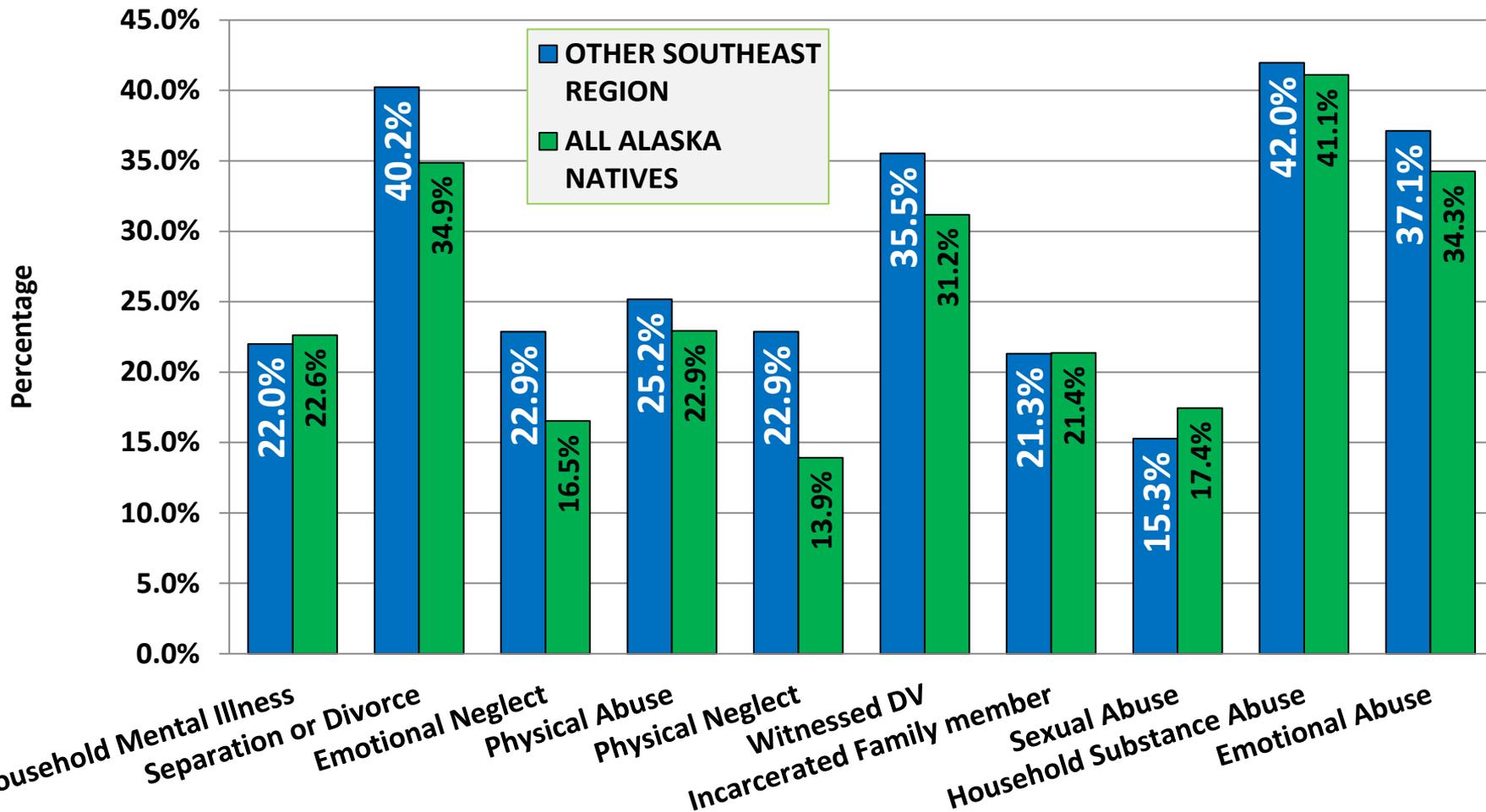
Other Southeast Behavioral Health Region and Statewide Percentage of Individual ACEs



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

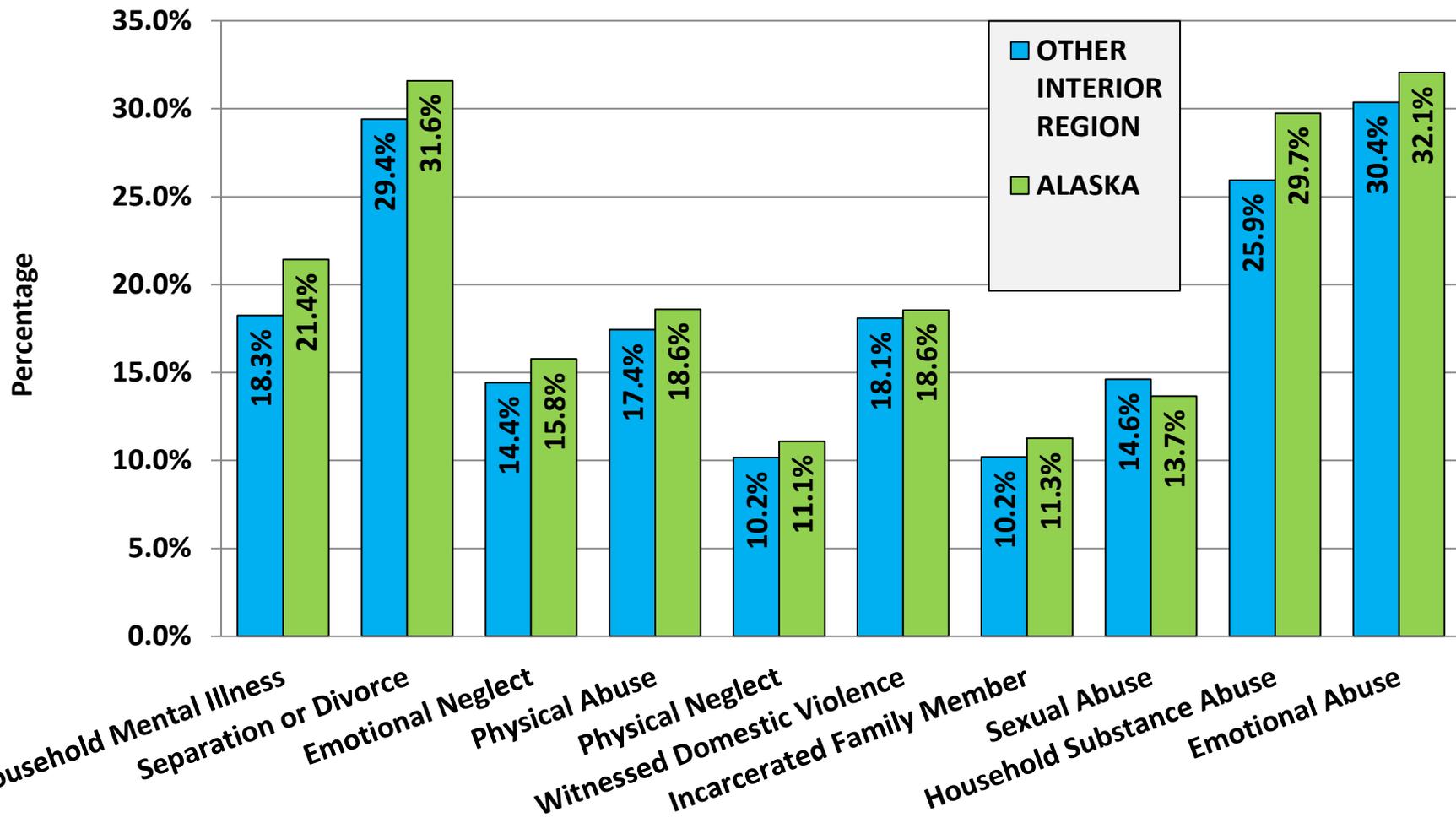
Note: No statistical difference between state and regional measures.

Other Southeast Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives

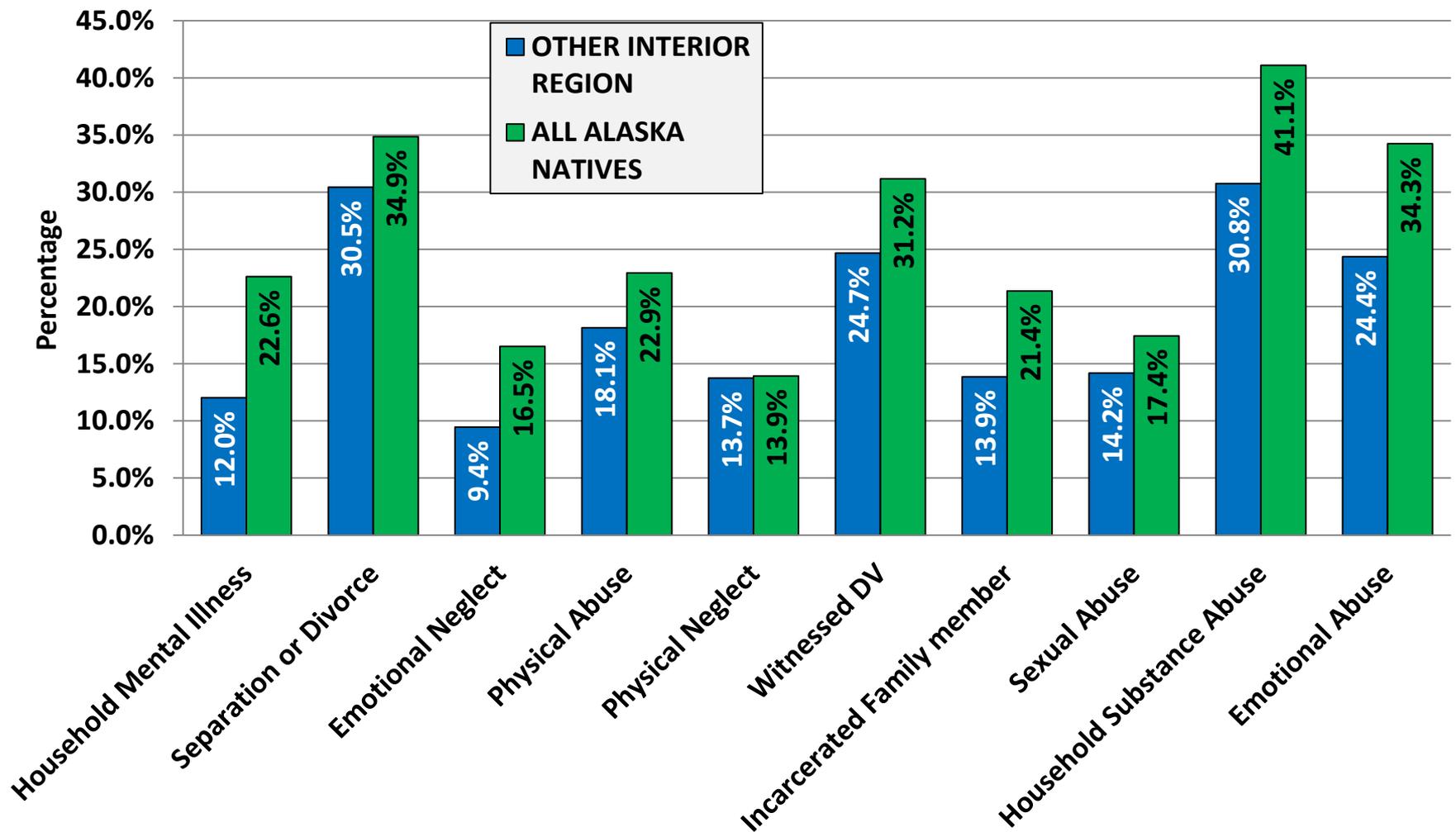


Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Other Interior Behavioral Health Region and Statewide Percentage of Individual ACEs

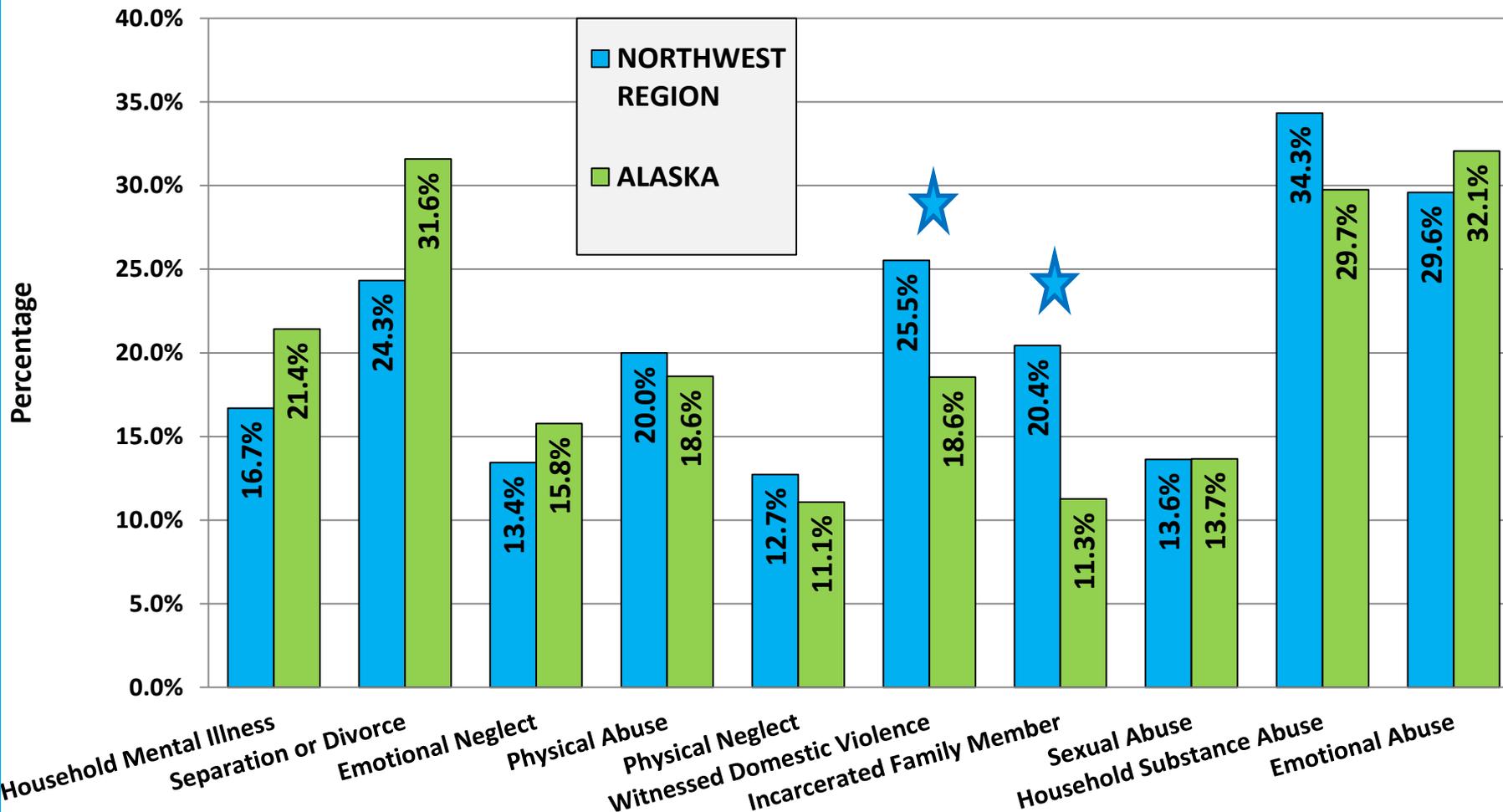


Other Interior Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Northwest Behavioral Health Region and Statewide Percentage of Individual ACEs

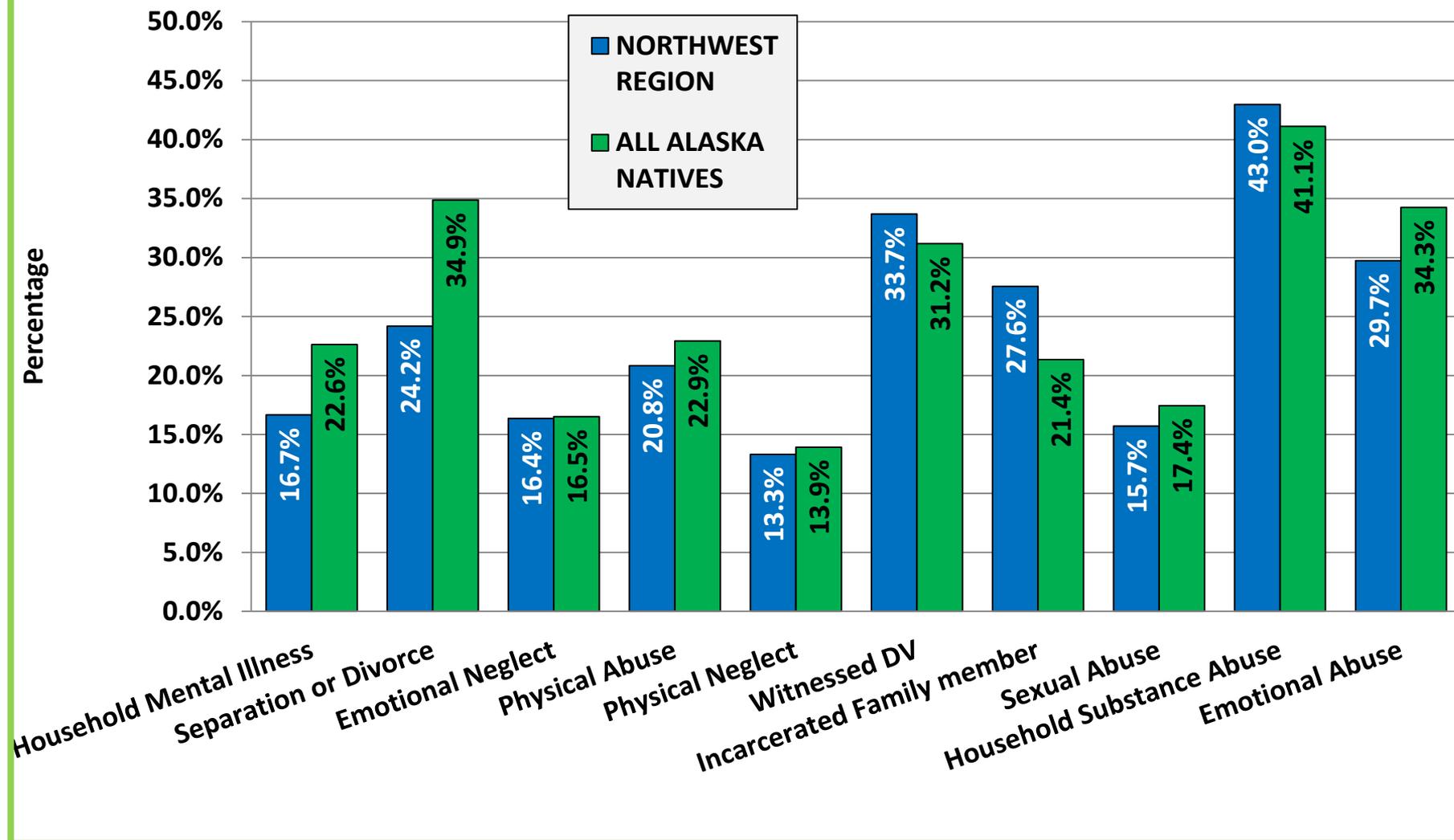


Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Note: Statistical difference between state and regional measures are starred.

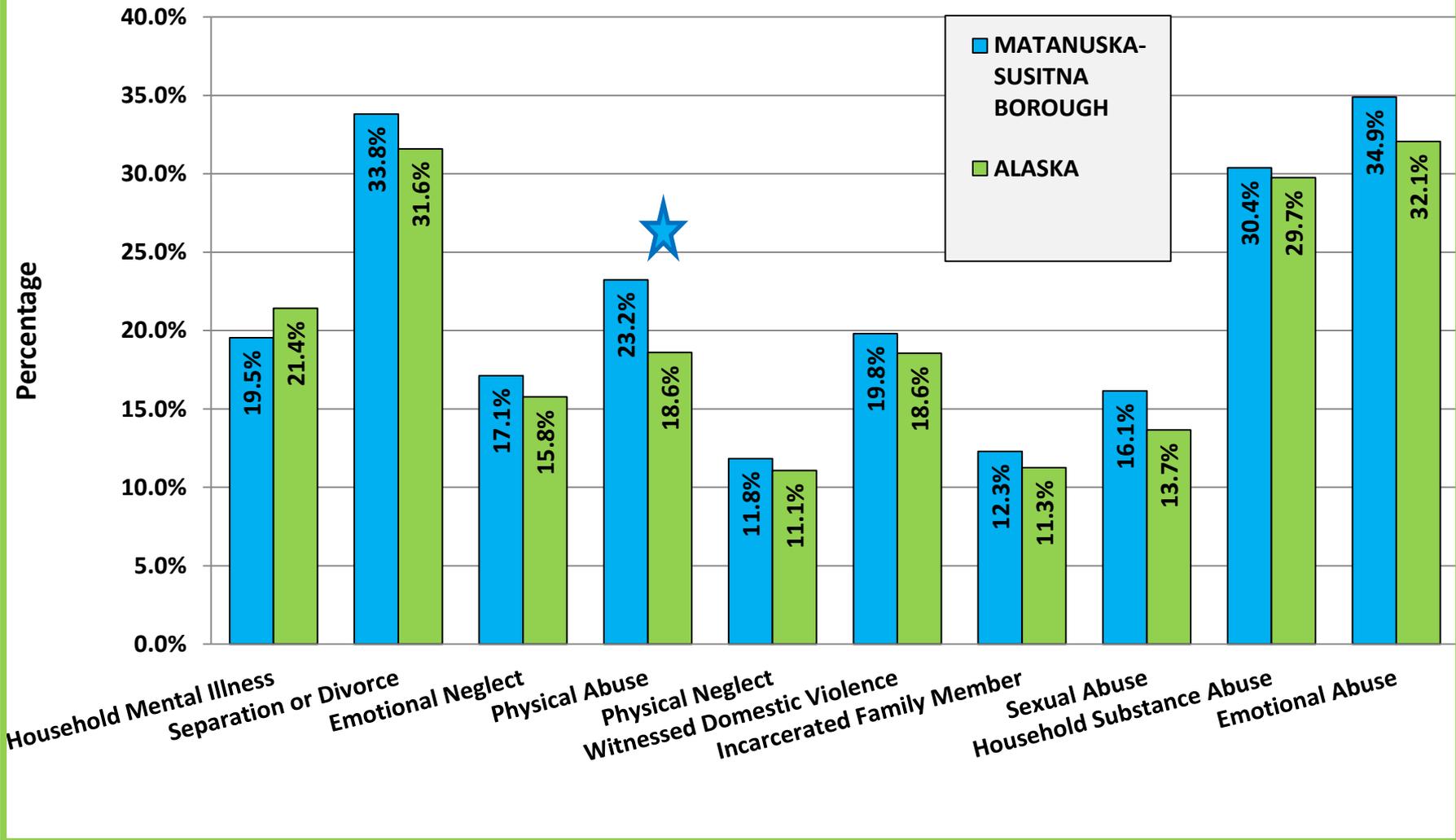


Northwest Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Mat-Su Borough Behavioral Health Region and Statewide Percentage of Individual ACEs

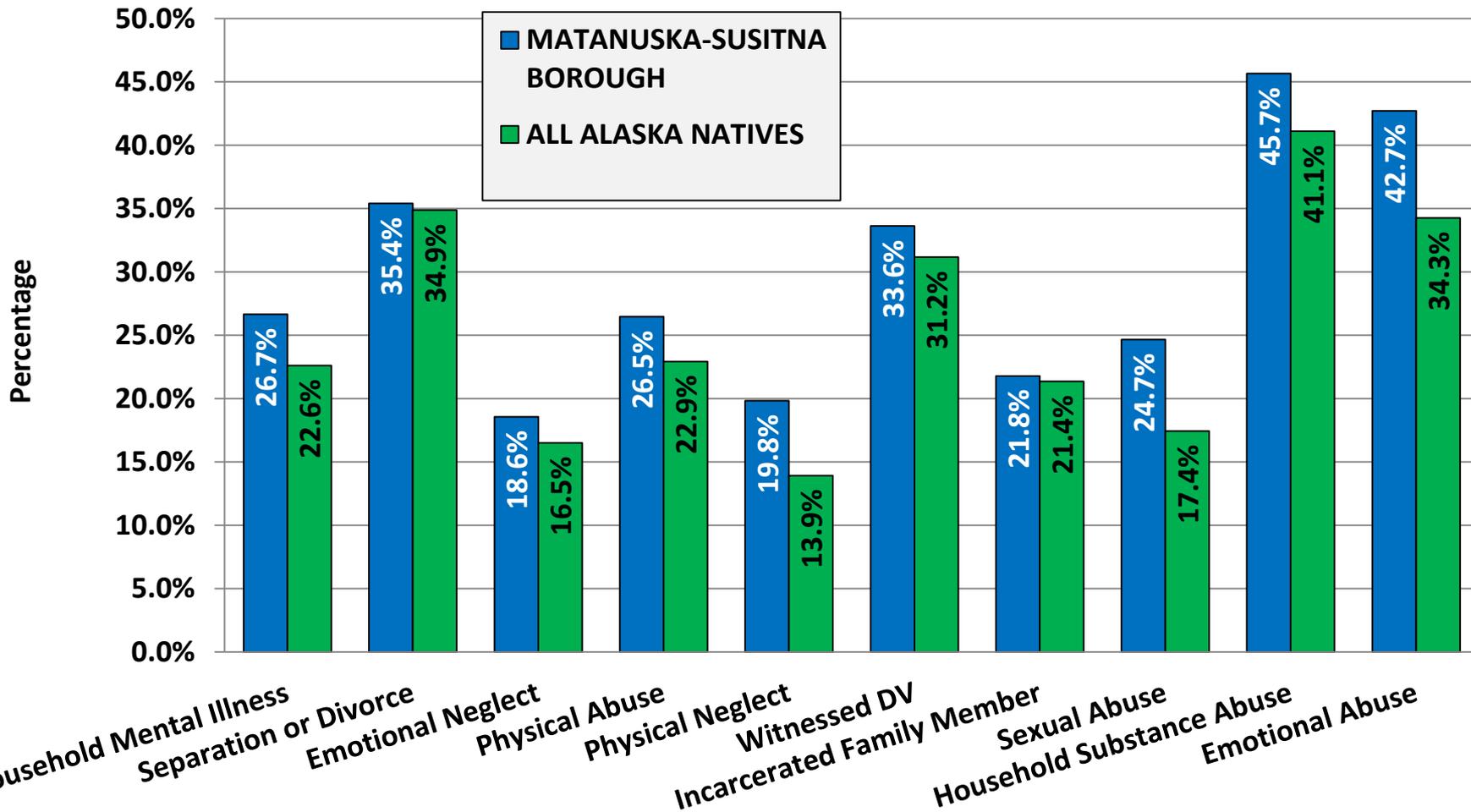


Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Note: Statistical difference between state and regional measure is starred.

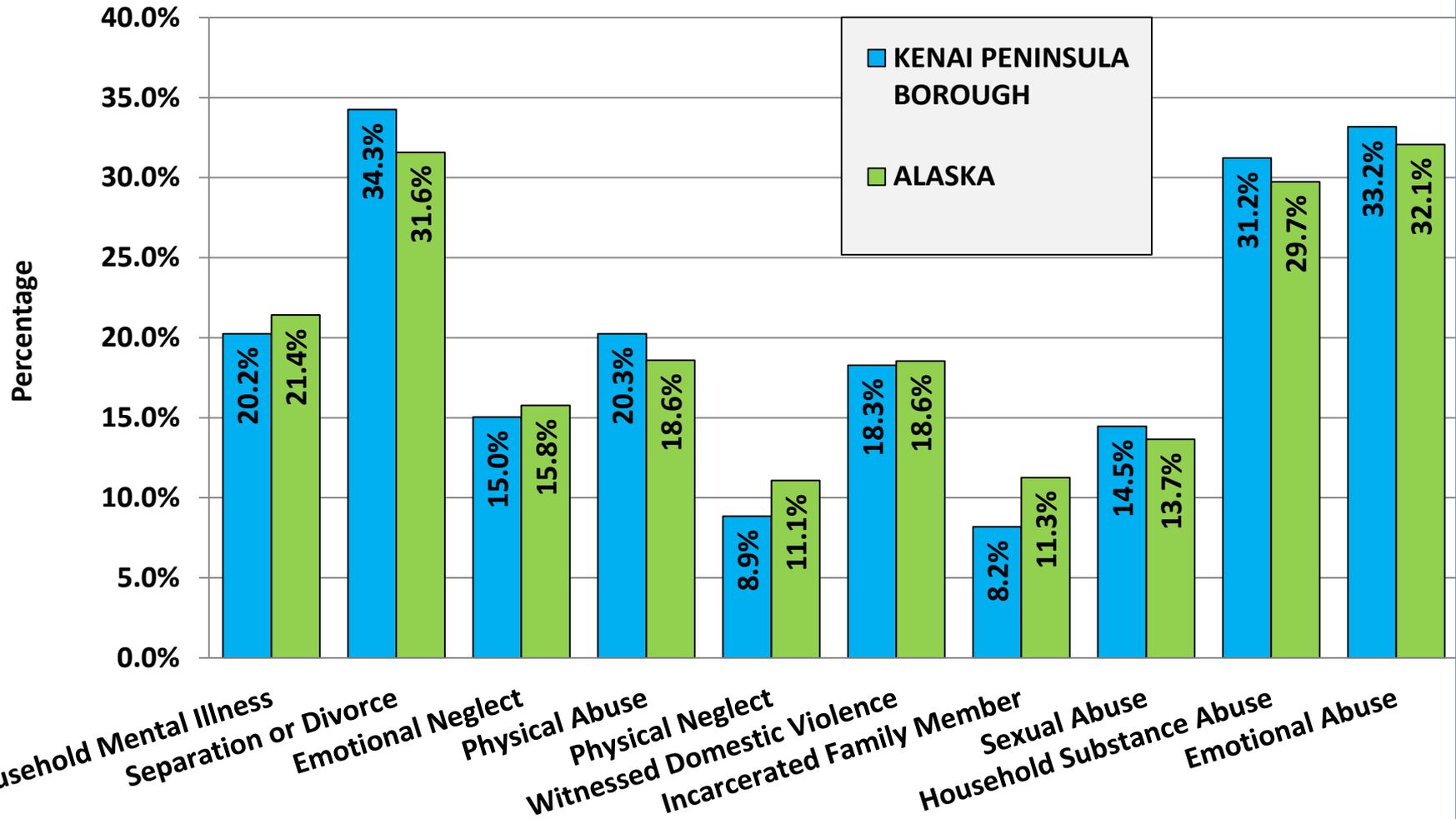


Mat-Su Borough Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

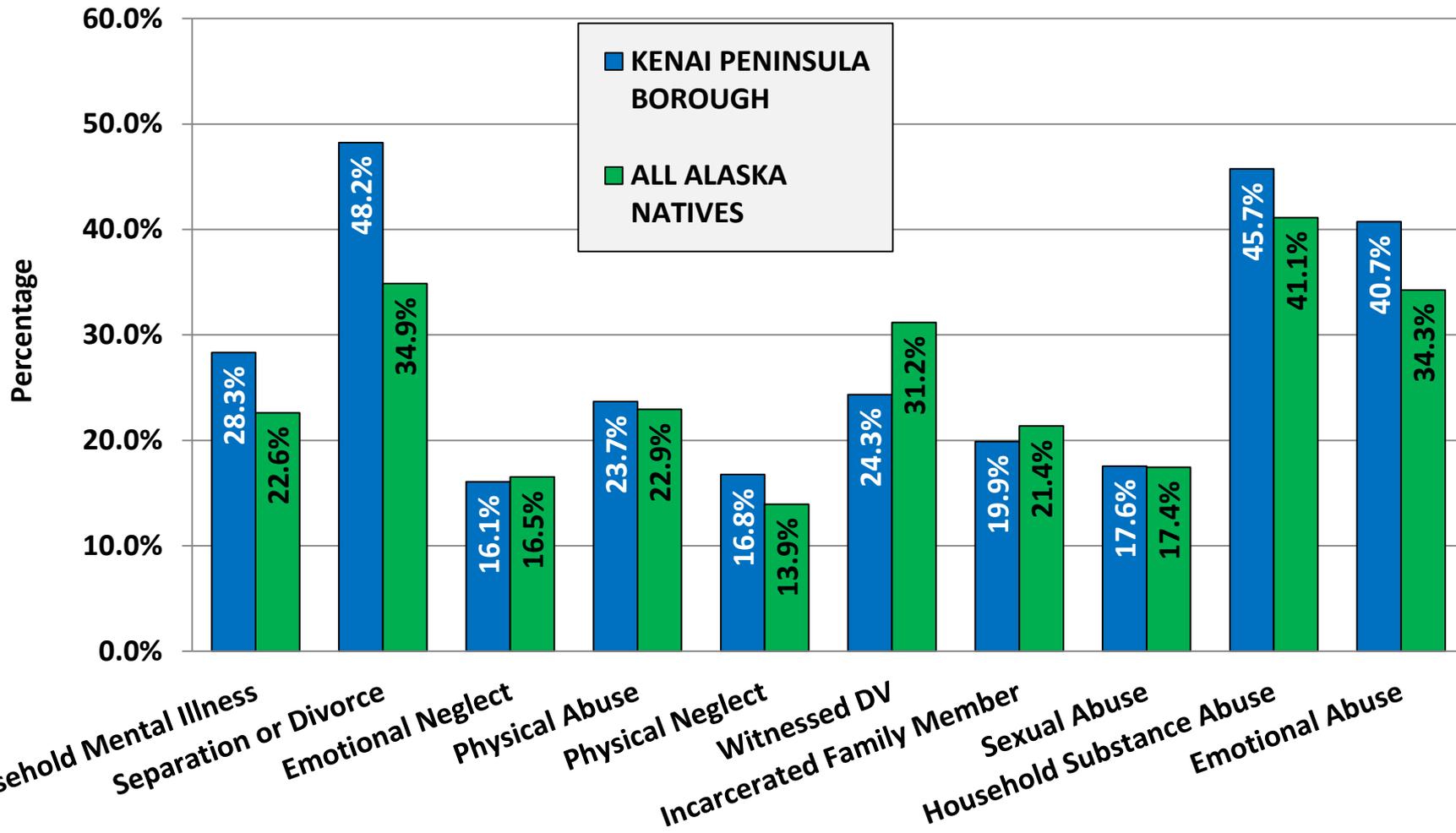
Kenai Peninsula Borough Behavioral Health Region and Statewide Percentage of Individual ACEs



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Note: No statistical difference between state and regional measures.

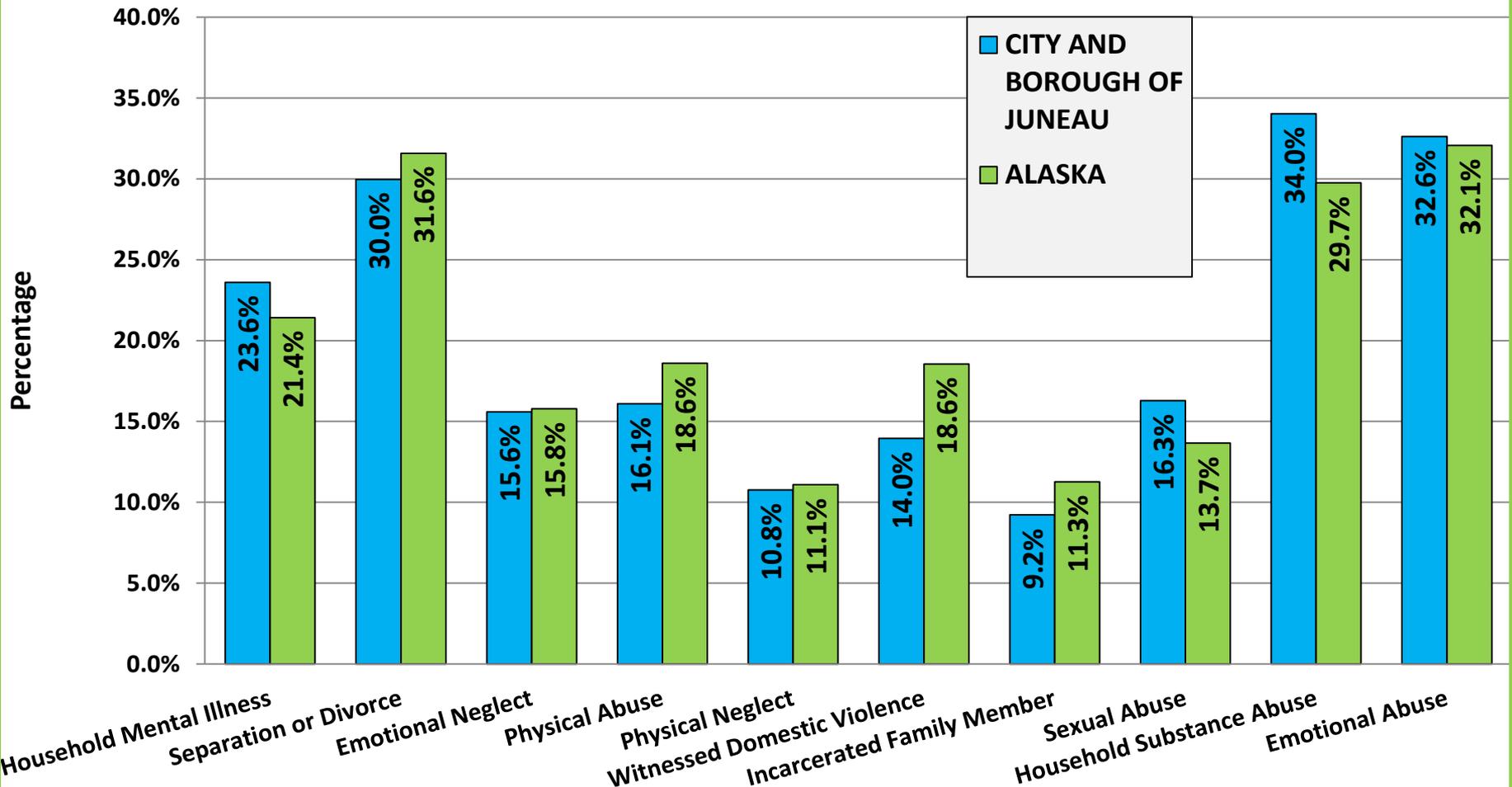
Kenai Peninsula Borough Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.



City & Borough of Juneau Behavioral Health Region and Statewide Percentage of Individual ACEs

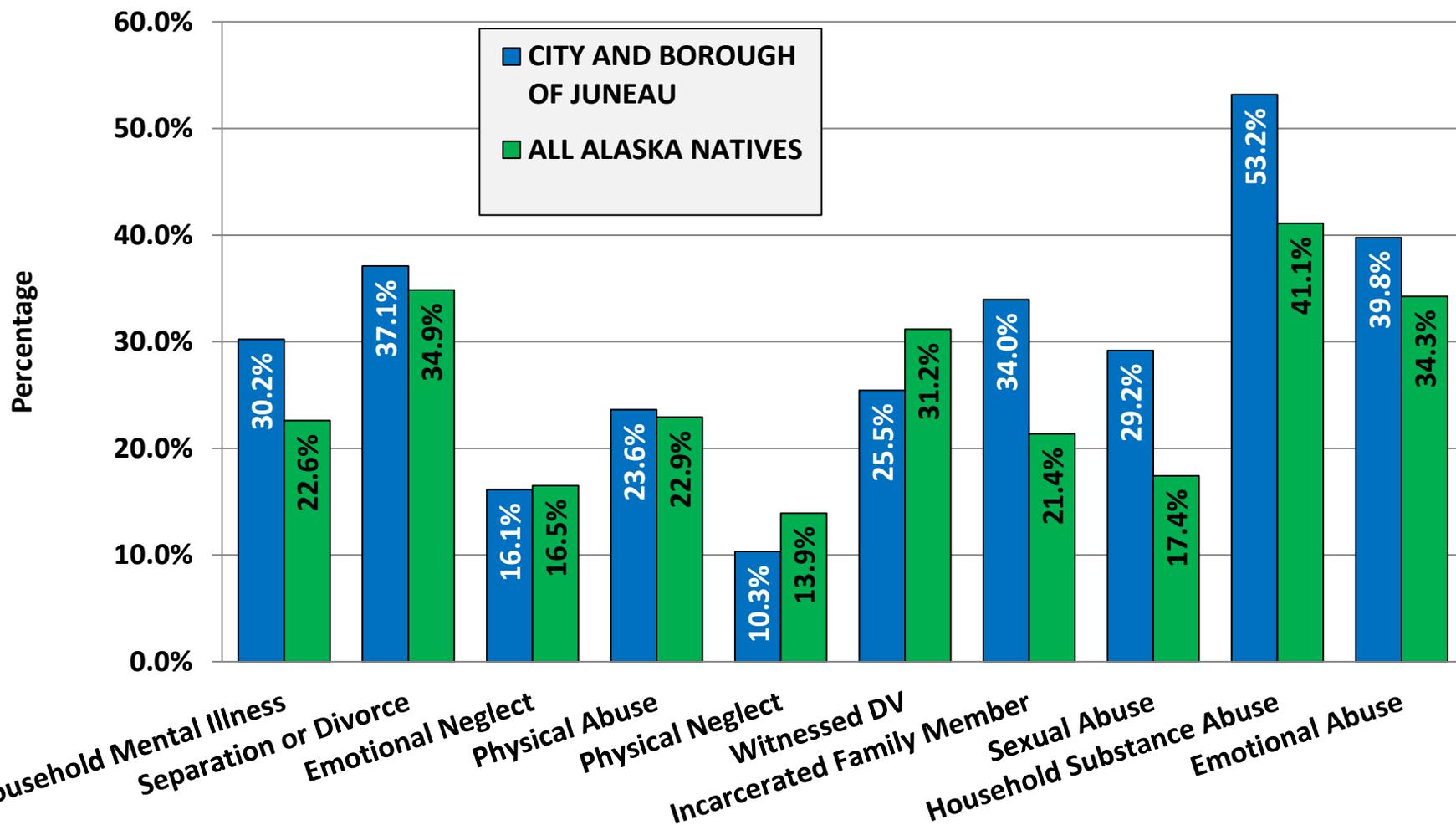


Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Note: No statistical difference between state and regional measures.



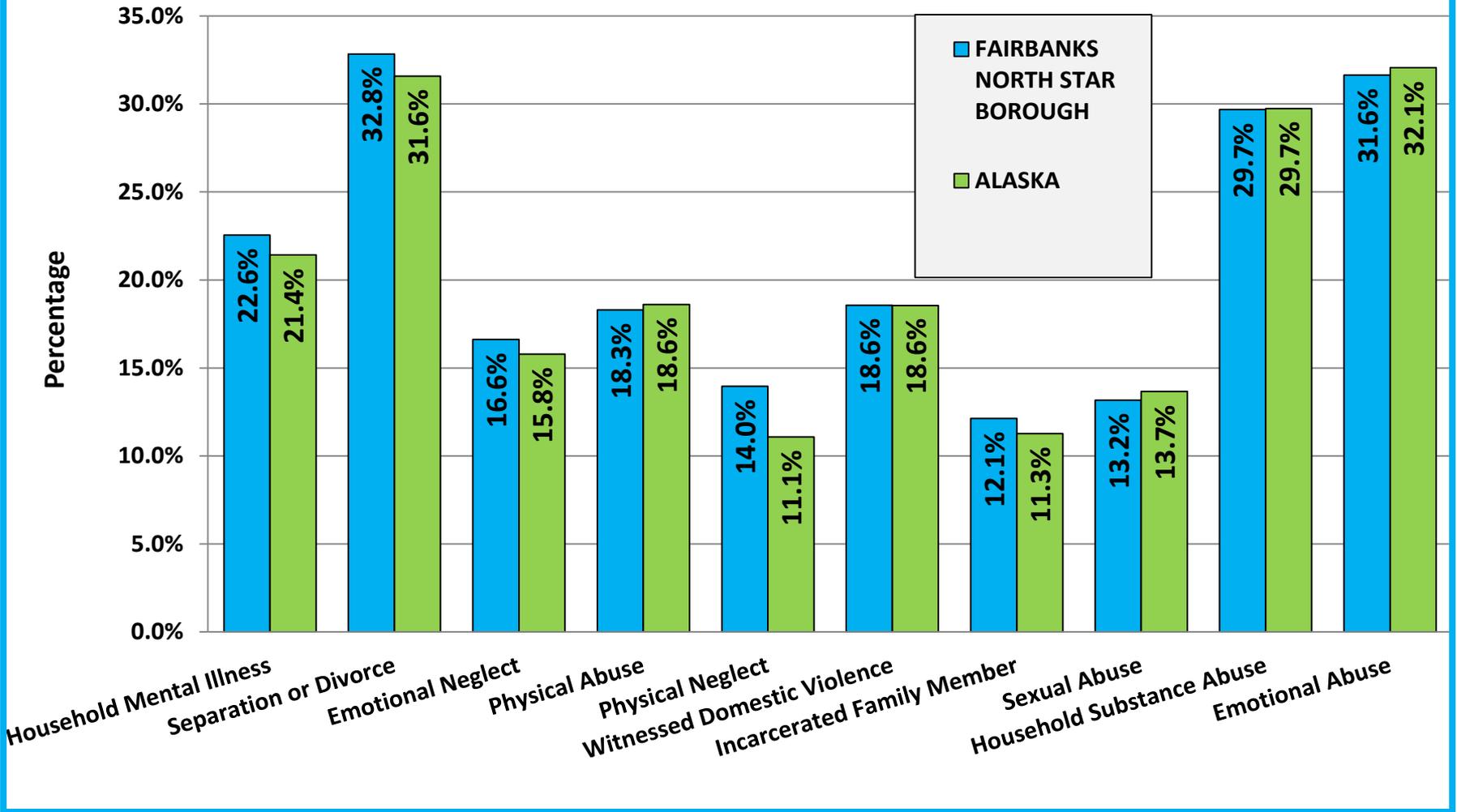
City & Borough of Juneau Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.



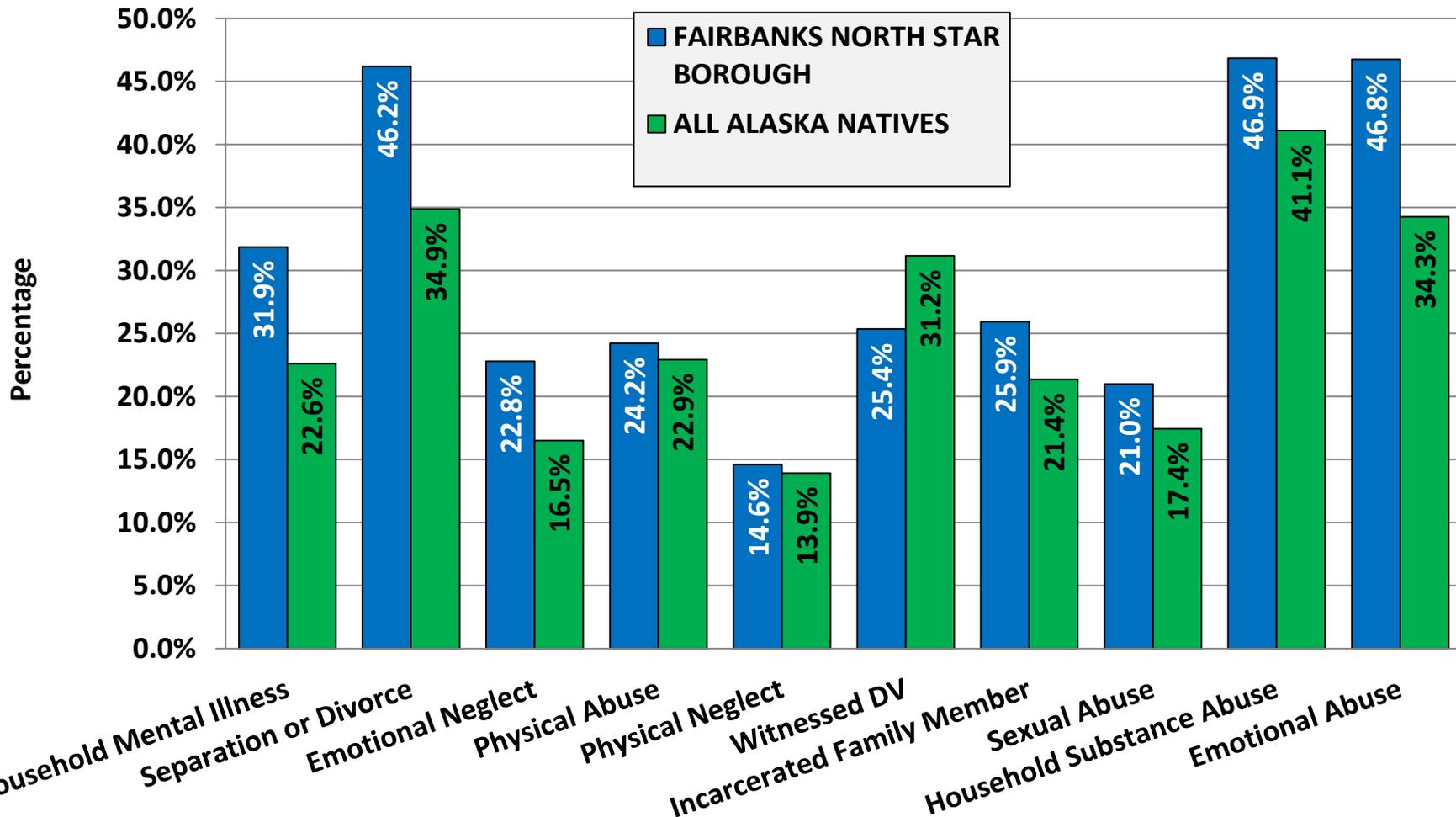
Fairbanks North Star Borough Behavioral Health Region and Statewide Percentage of Individual ACEs



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

Note: No statistical difference between state and regional measures.

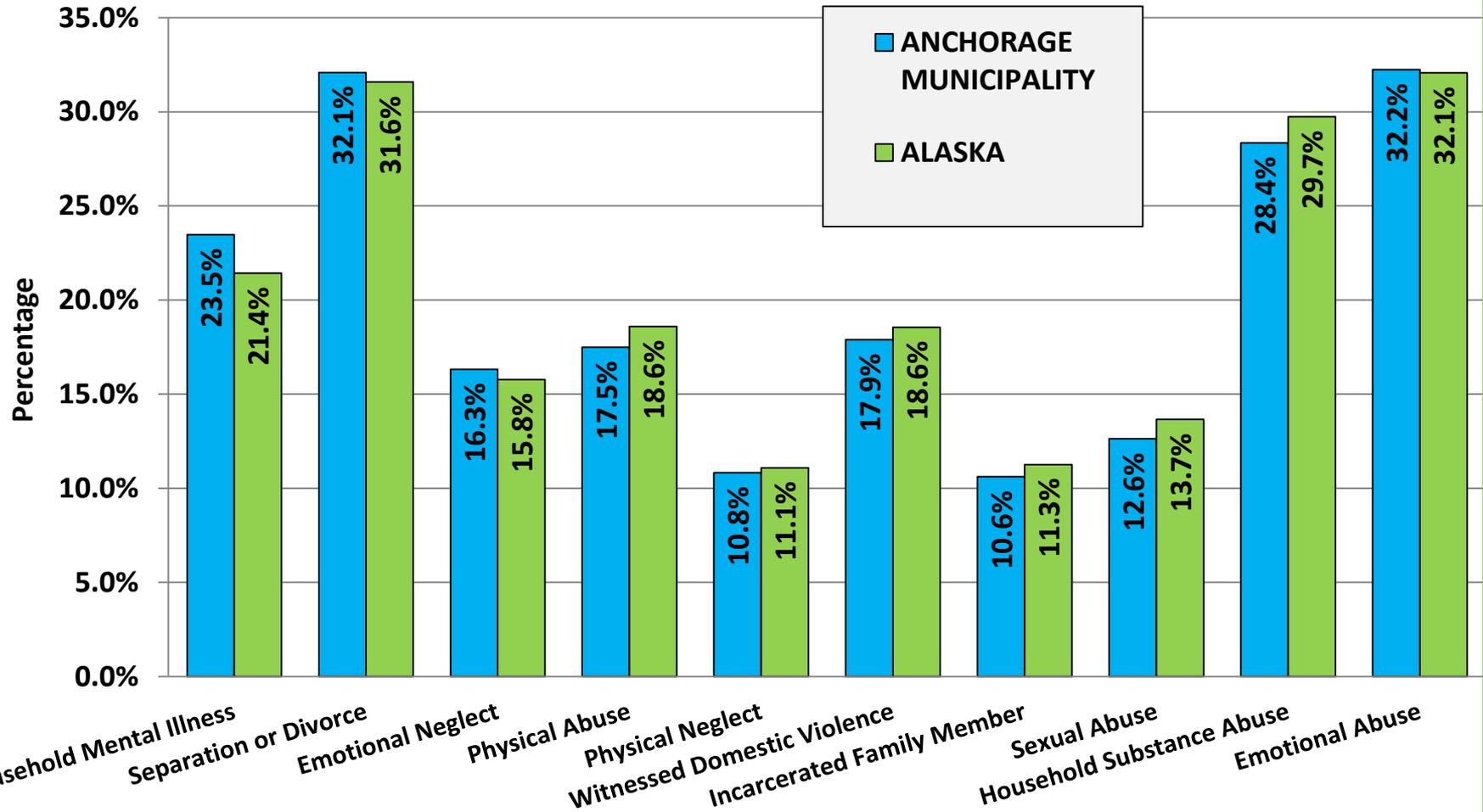
Fairbanks North Star Borough Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.



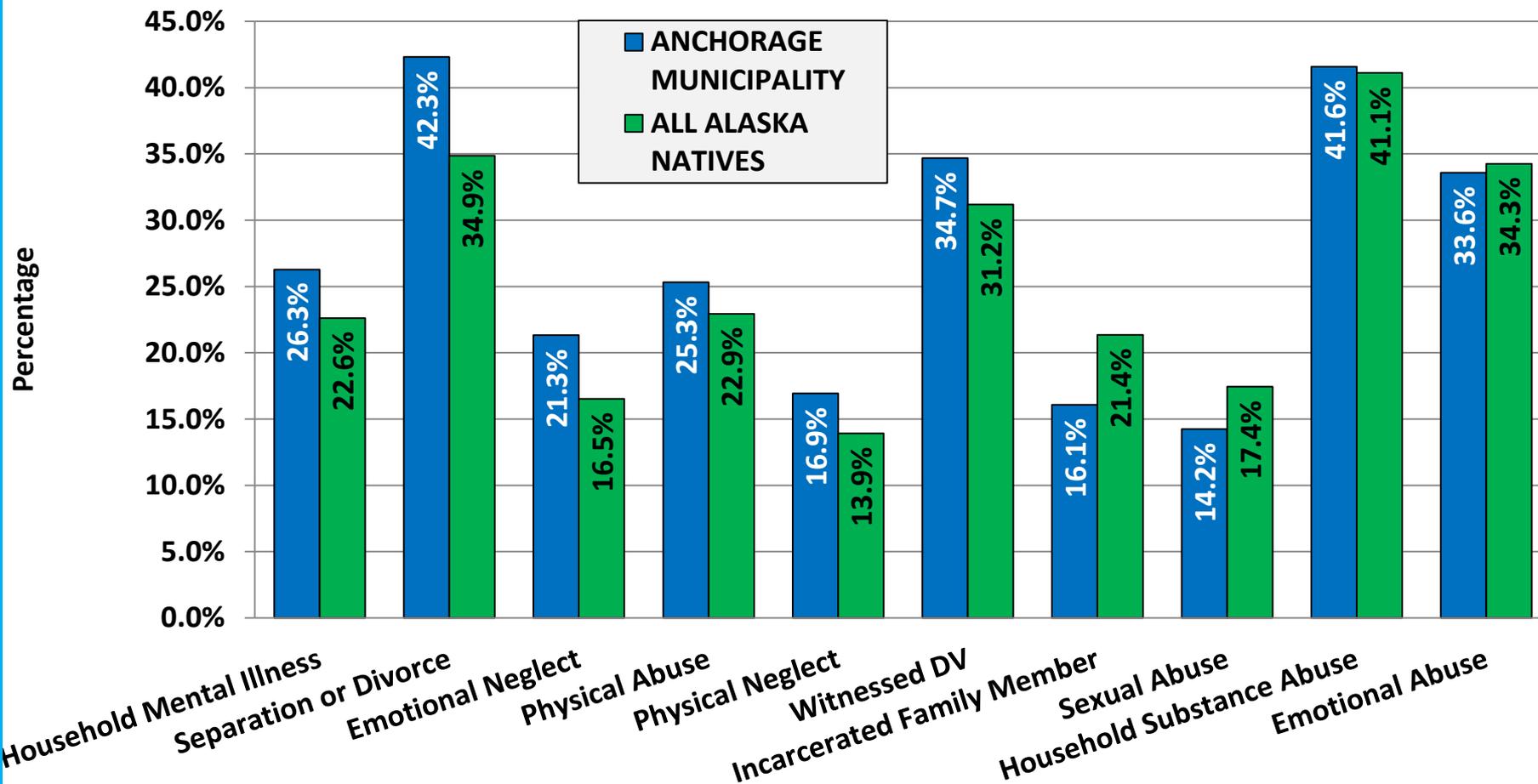
Anchorage Municipality Behavioral Health Region and Statewide Percentage of Individual ACEs



Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

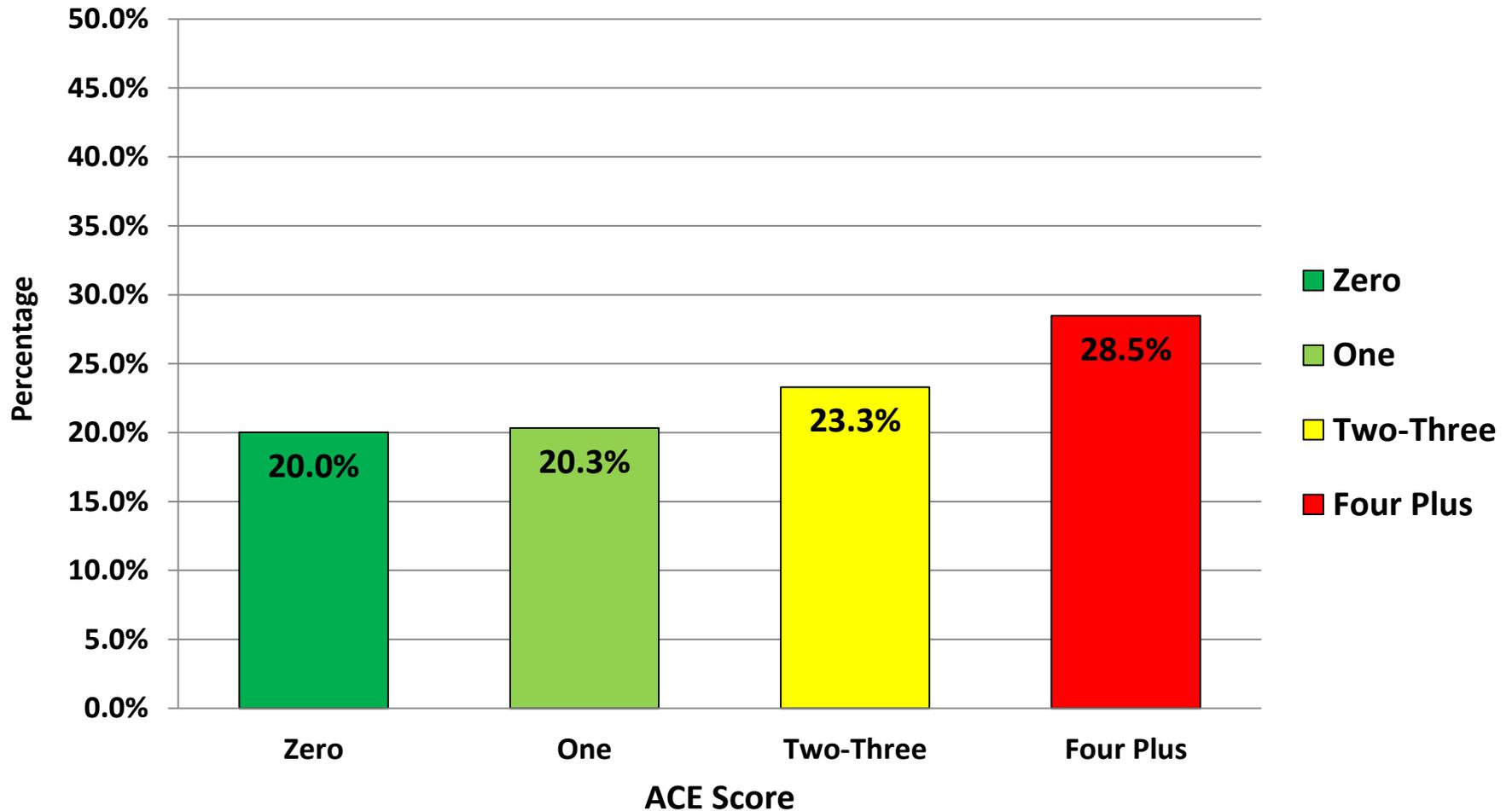
Note: No statistical difference between state and regional measures.

Anchorage Municipality Behavioral Health Region and Statewide Percentage of Individual ACEs for Alaska Natives

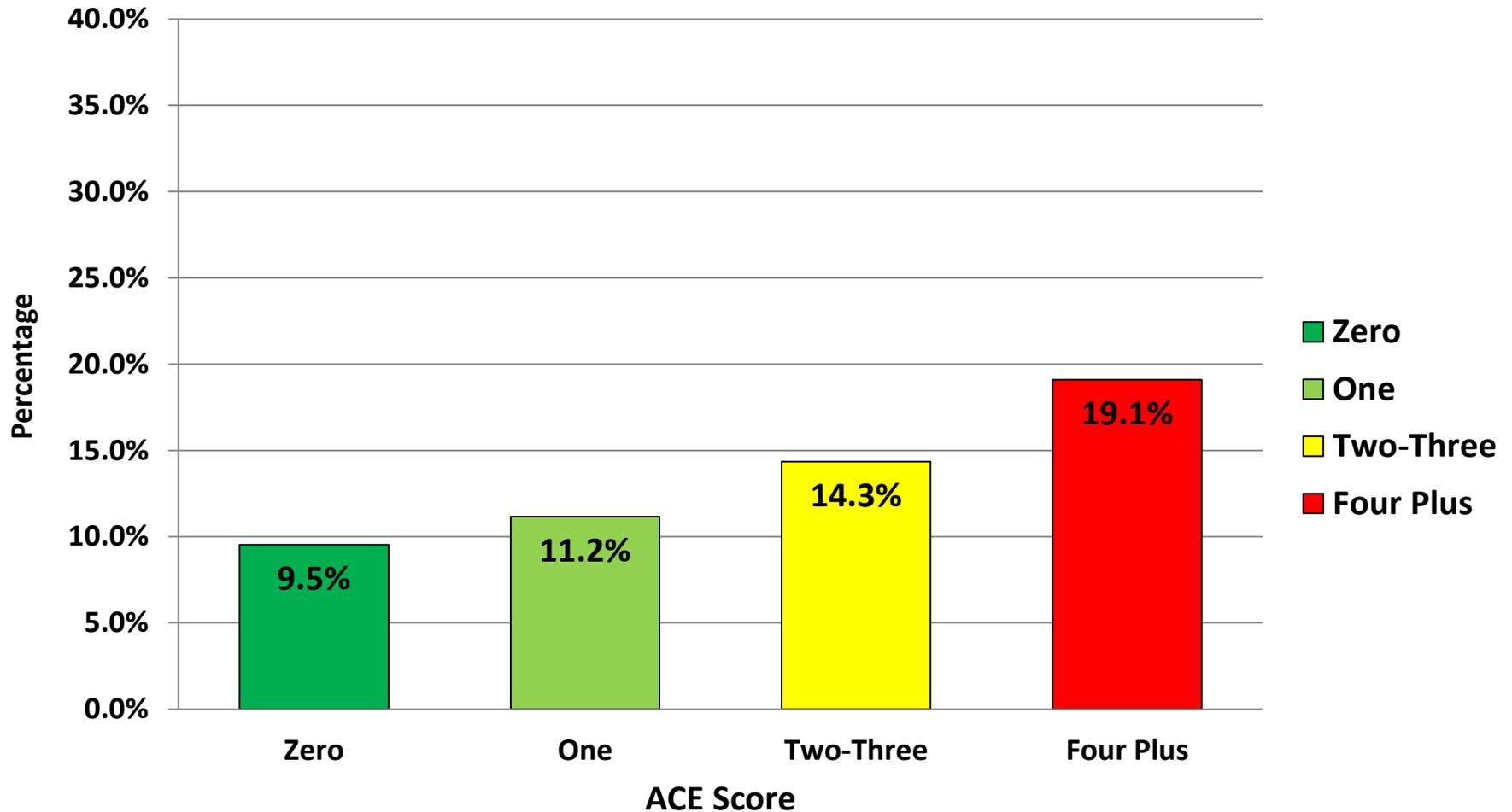


Source: Alaska 2013-2015 Behavioral Risk Factor Surveillance System Survey, Division of Public Health, Section of Chronic Disease Prevention and Health Promotion.

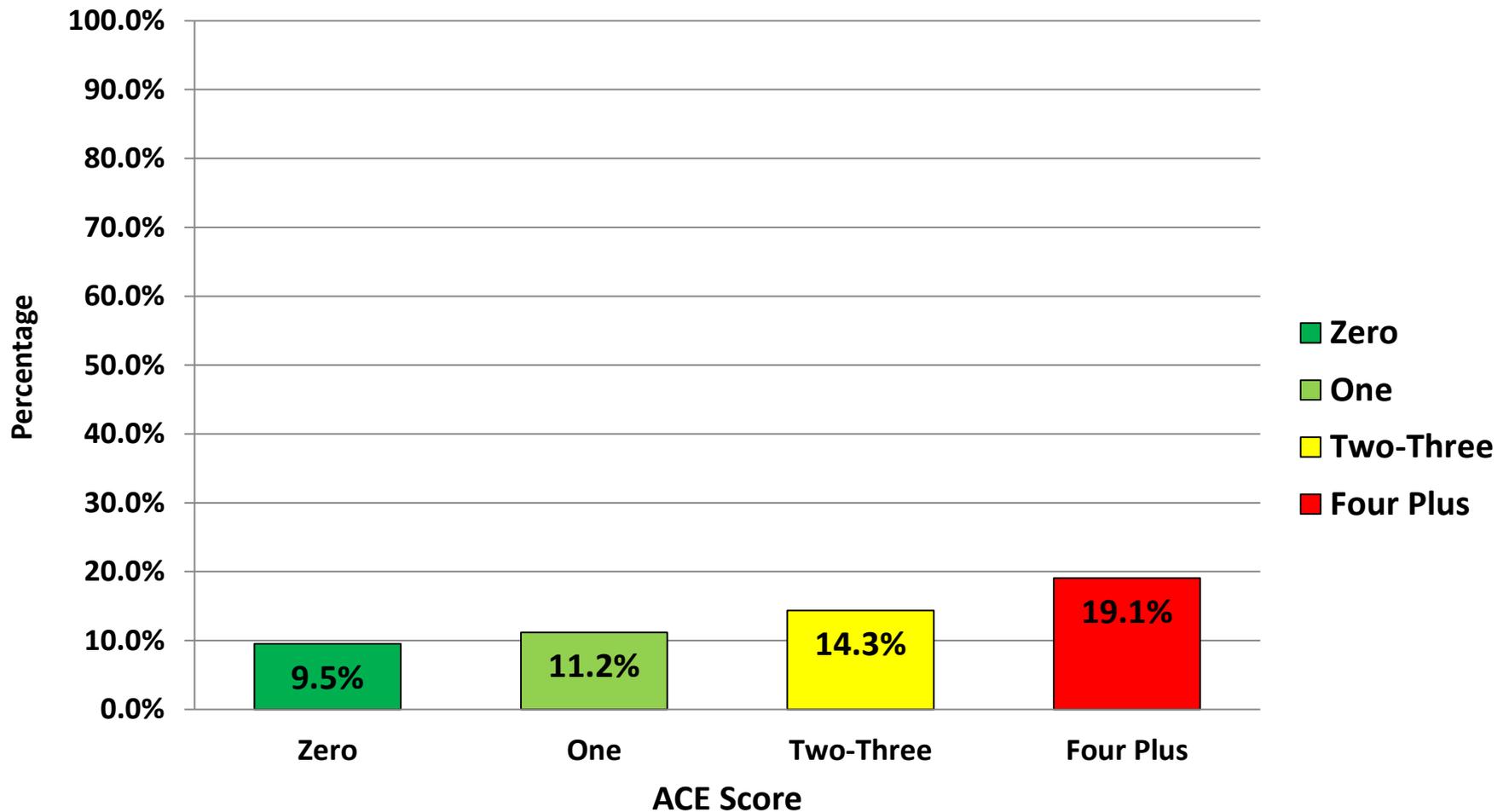
Percentage of Alaskan Adults Who Reported Ever Having Been Diagnosed with Arthritis by ACE Score



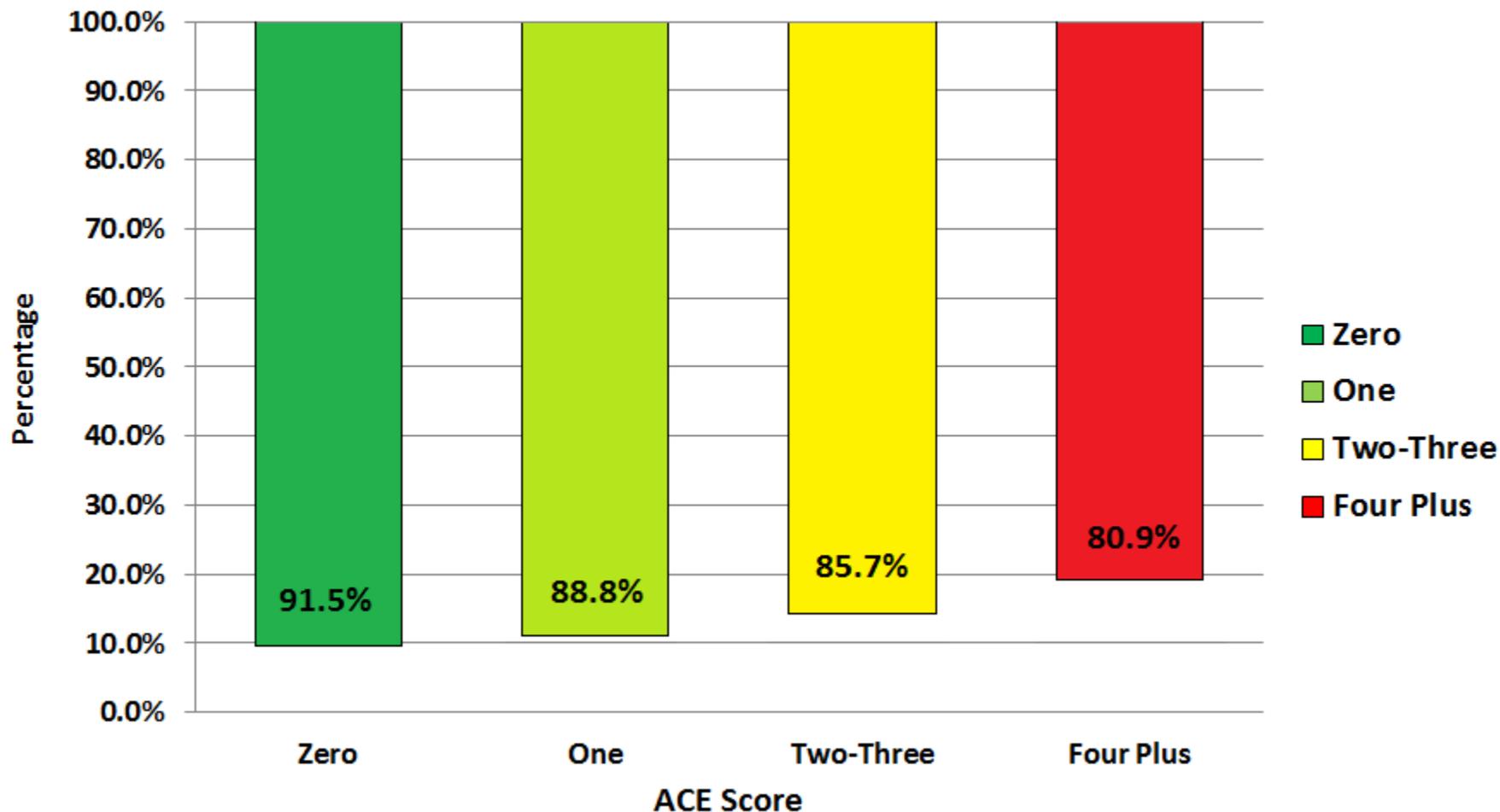
Percentage of Alaskan Adults who Reported to Ever Having Been Diagnosed with Asthma by ACE Score



Percentage of Alaskan Adults who Reported to Ever Having Been Diagnosed with Asthma by ACE Score

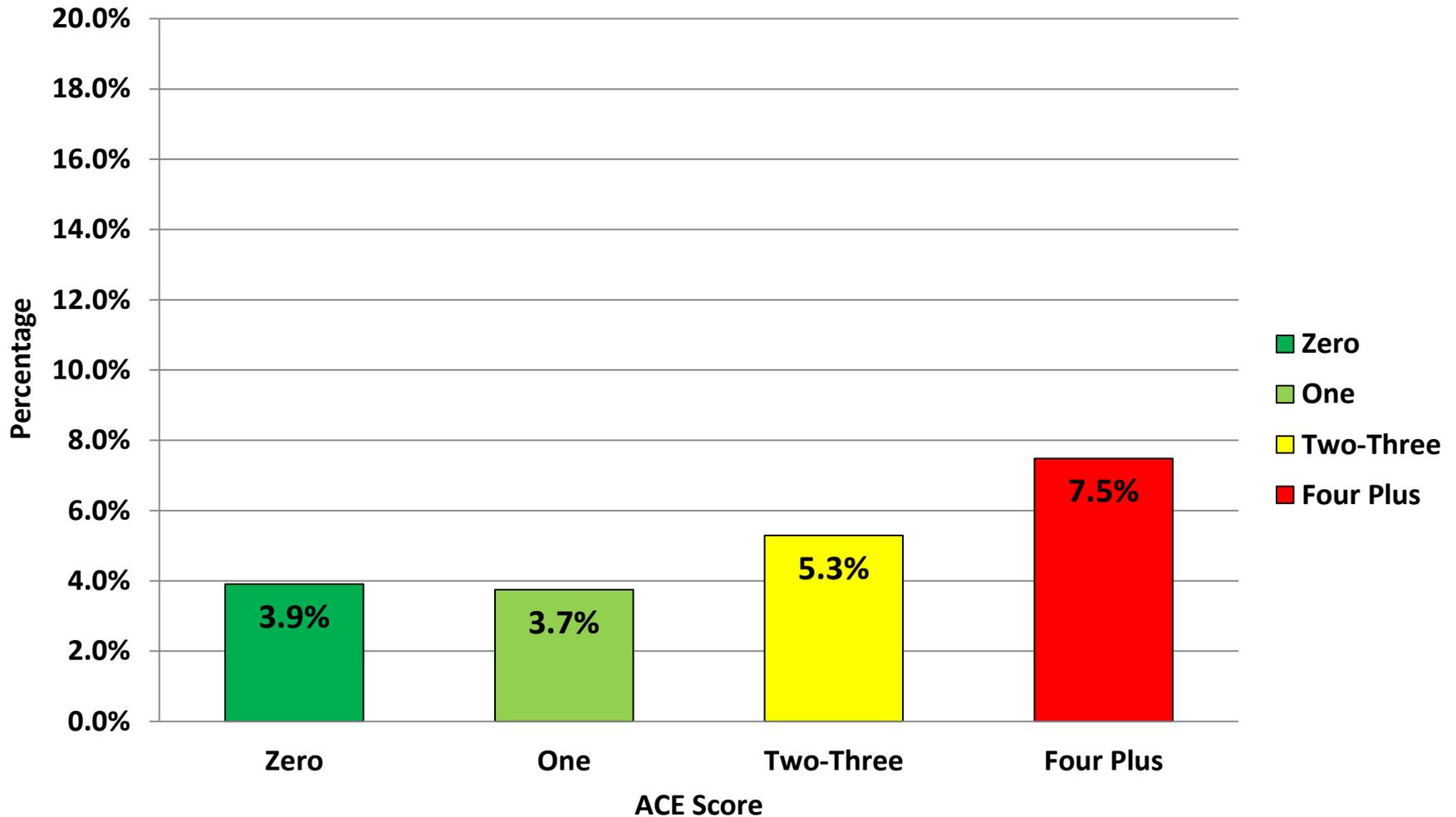


Percentage of Alaskan Adults who Reported to Never Having Been Diagnosed with Asthma by ACE Score



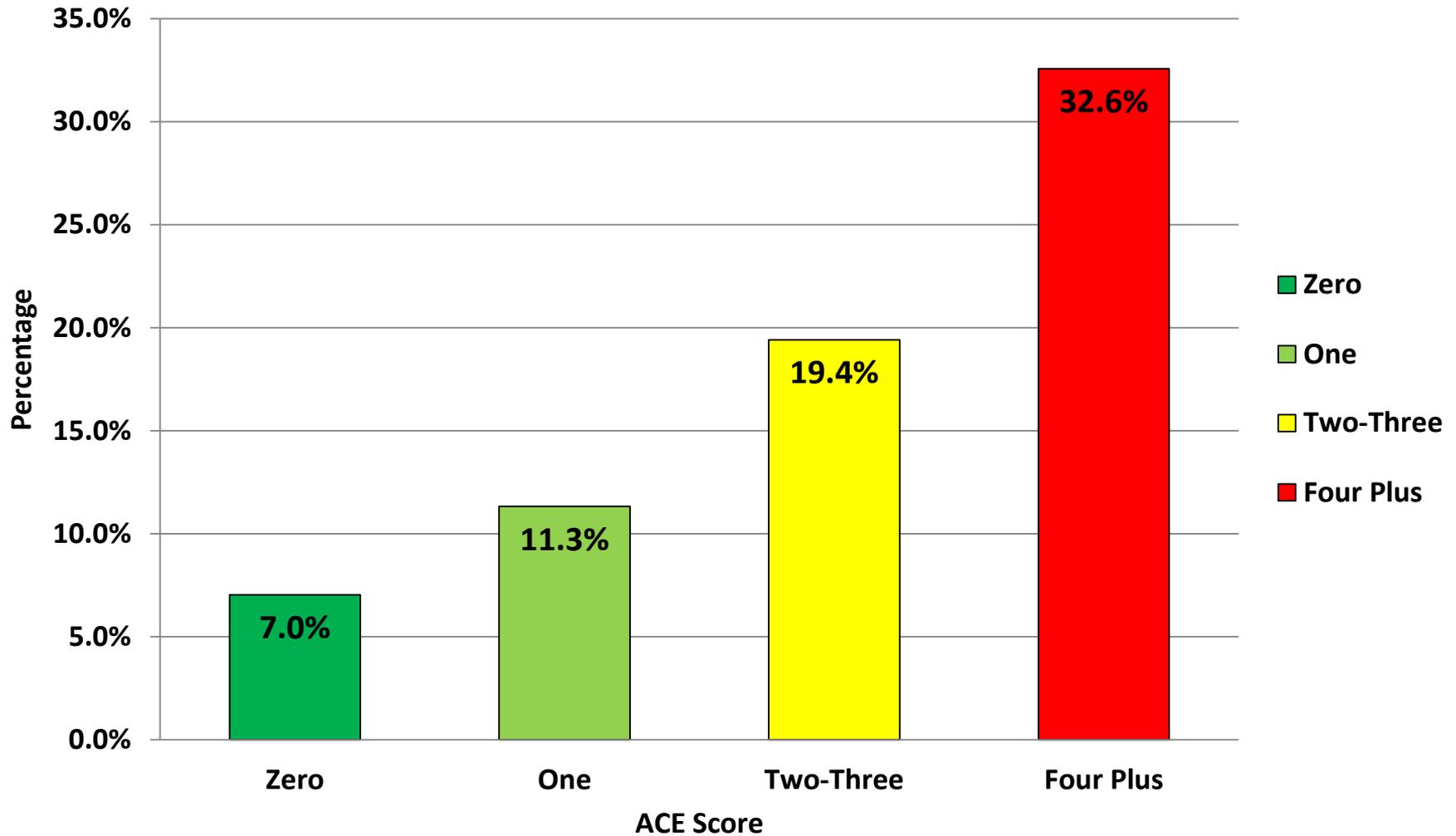
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adults Who Ever Reported Having COPD, Emphysema or Chronic Bronchitis by ACE Score



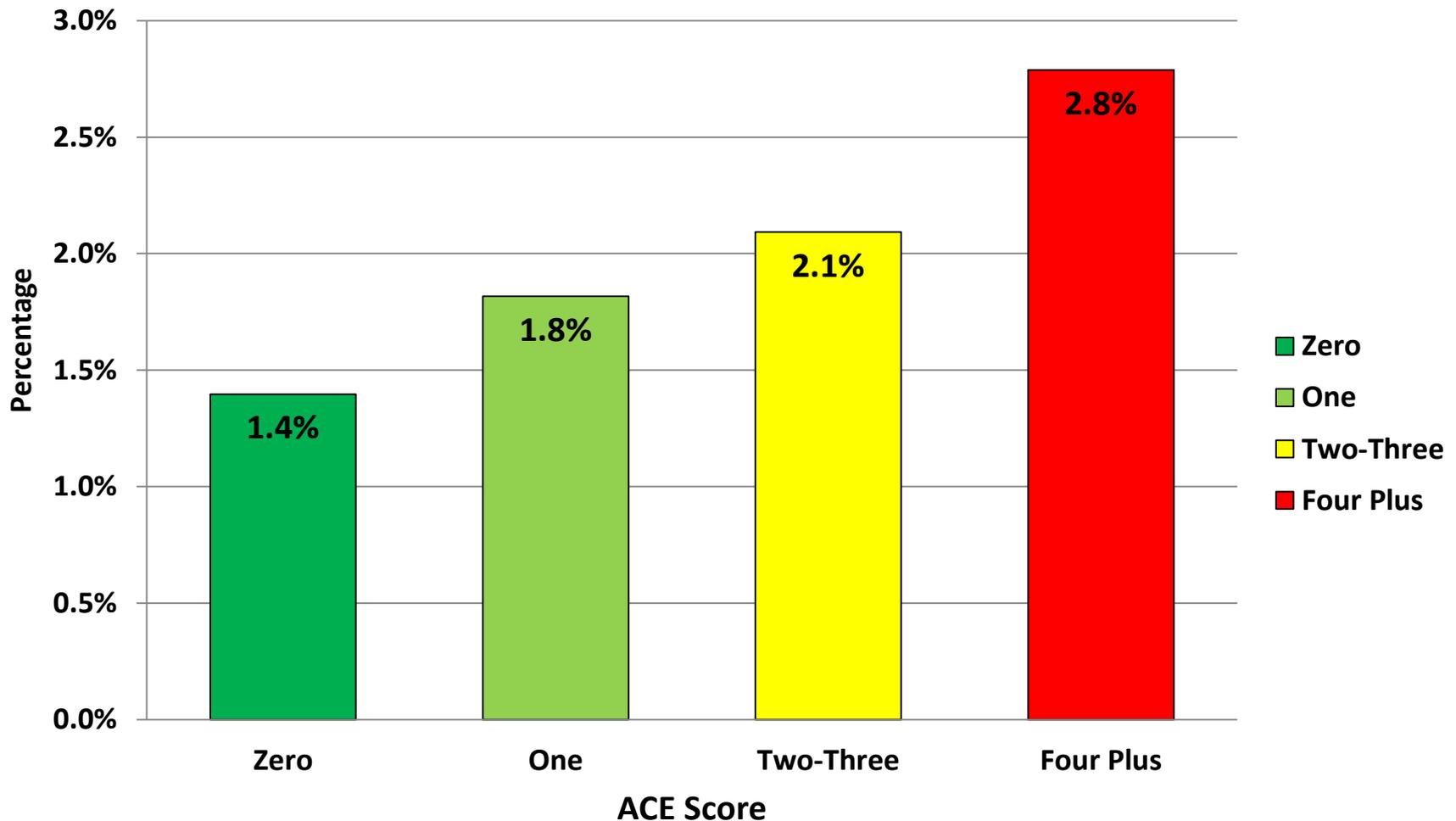
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adult Who Reported Ever Being Diagnosed with a Depressive Disorder by ACE Score



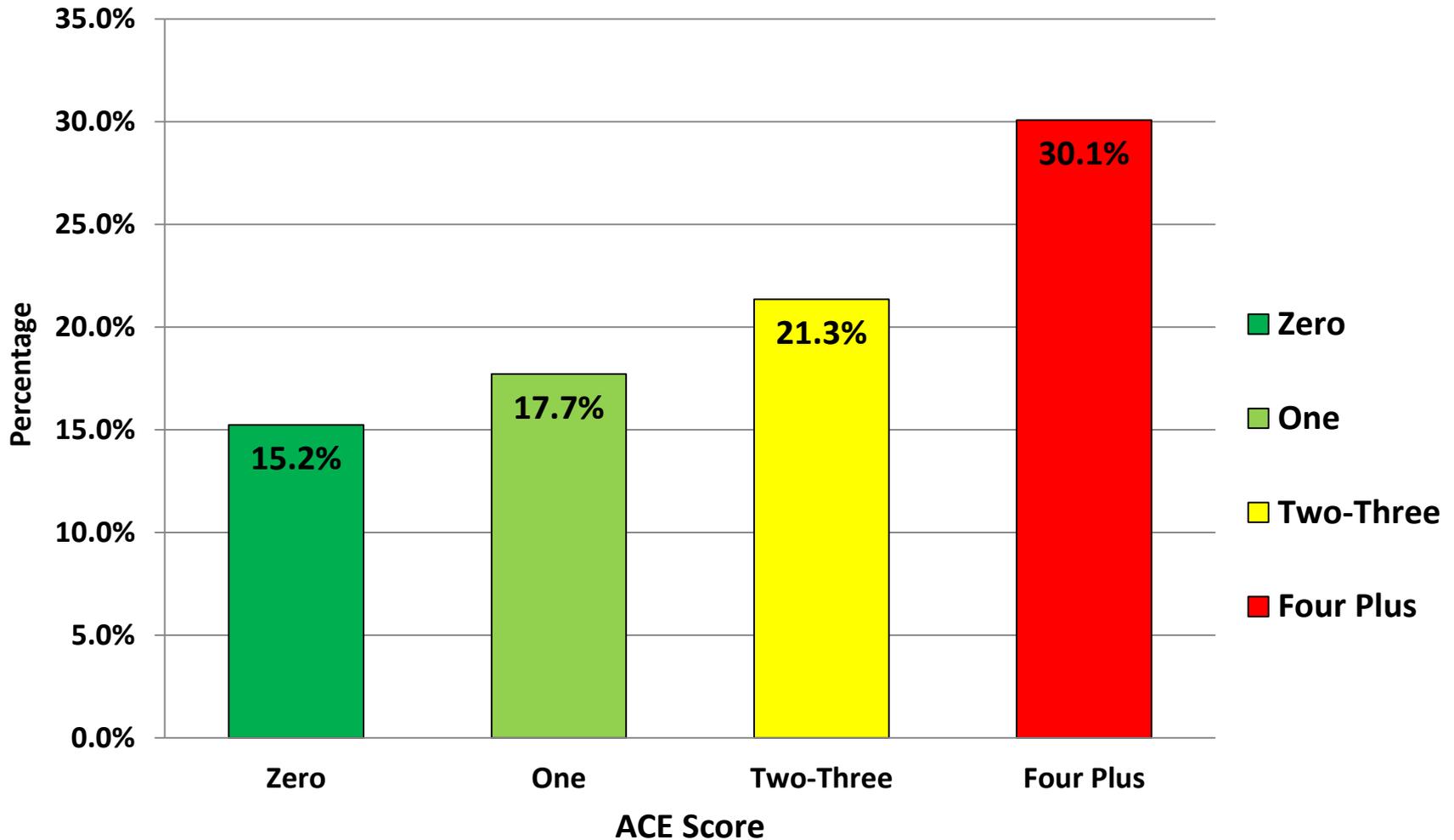
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adults who Have Ever Been Diagnosed With Kidney Disease by ACE Score



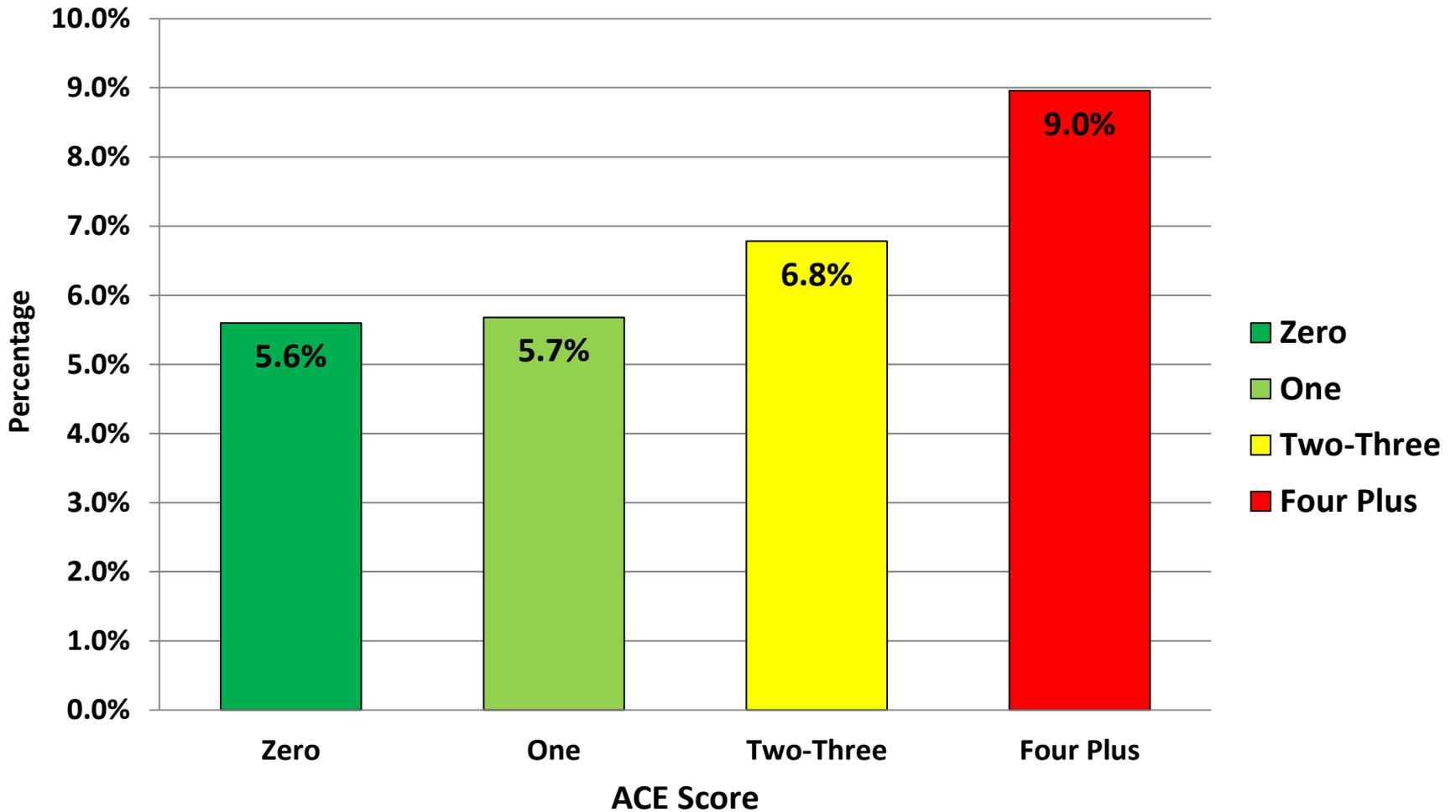
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adults who Report Limited Activity Due to Health Problems by ACE Score

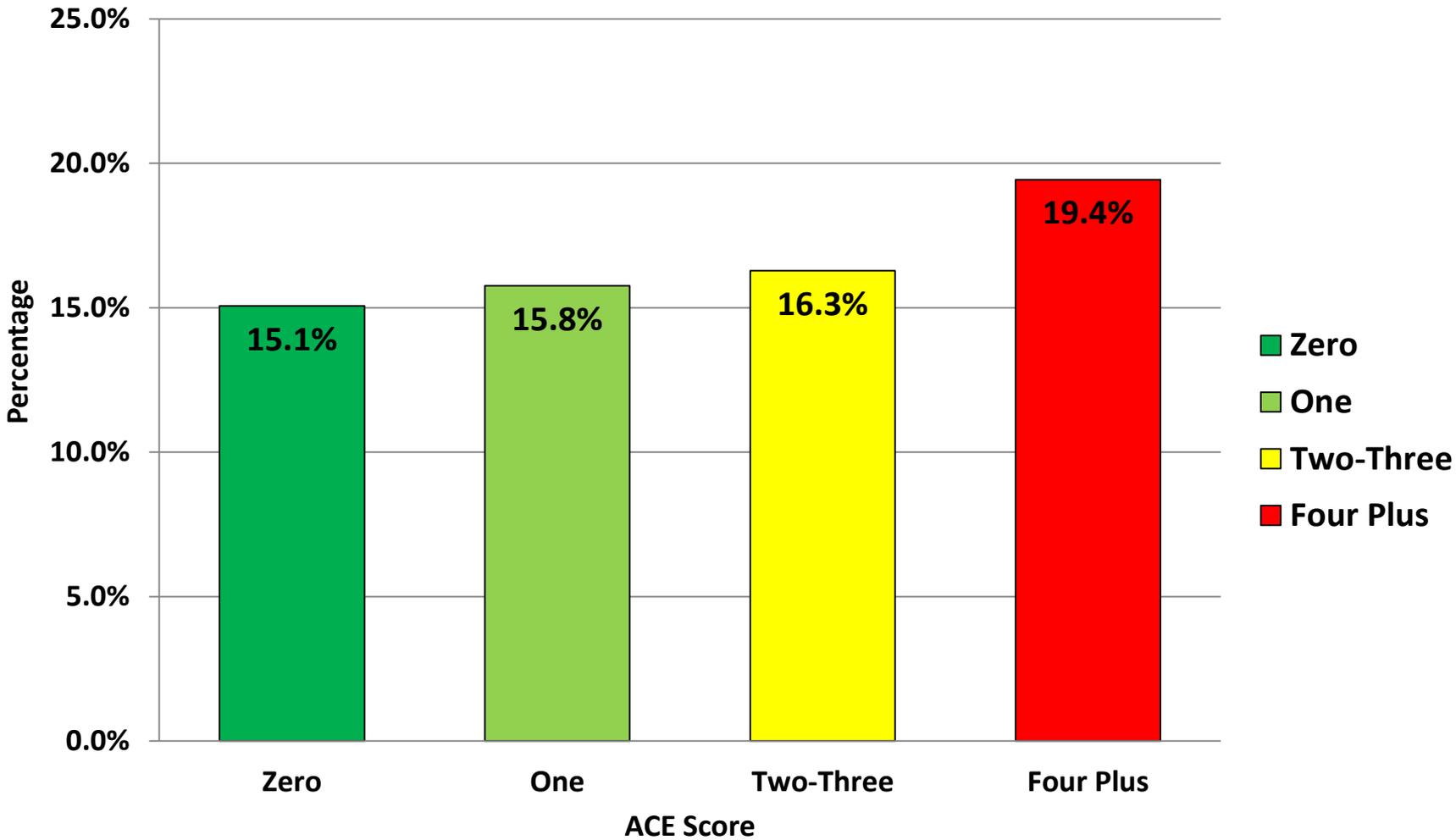


Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

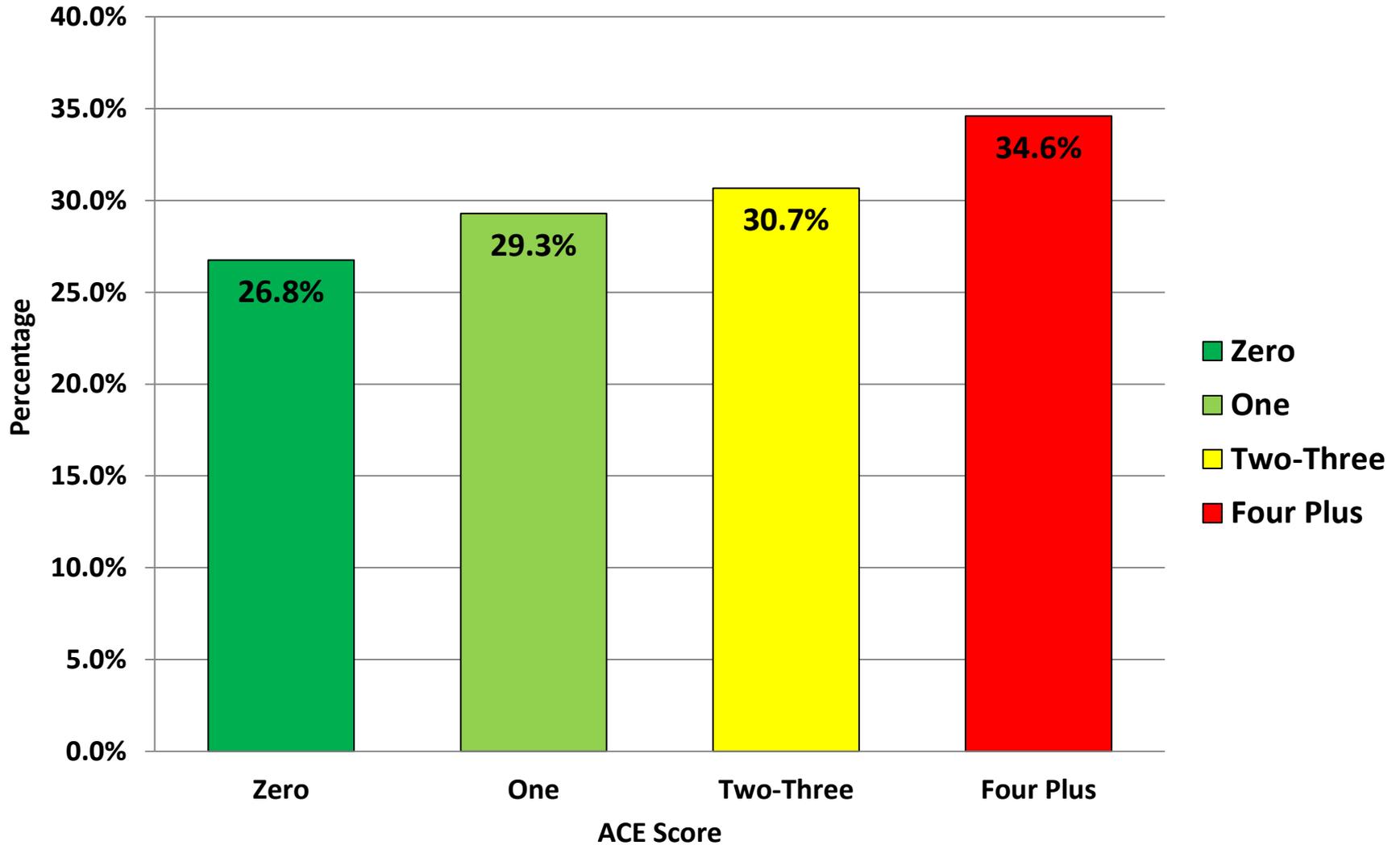
Percentage of Alaskan Adults Who Require Special Equipment for Health Problems by ACE Score



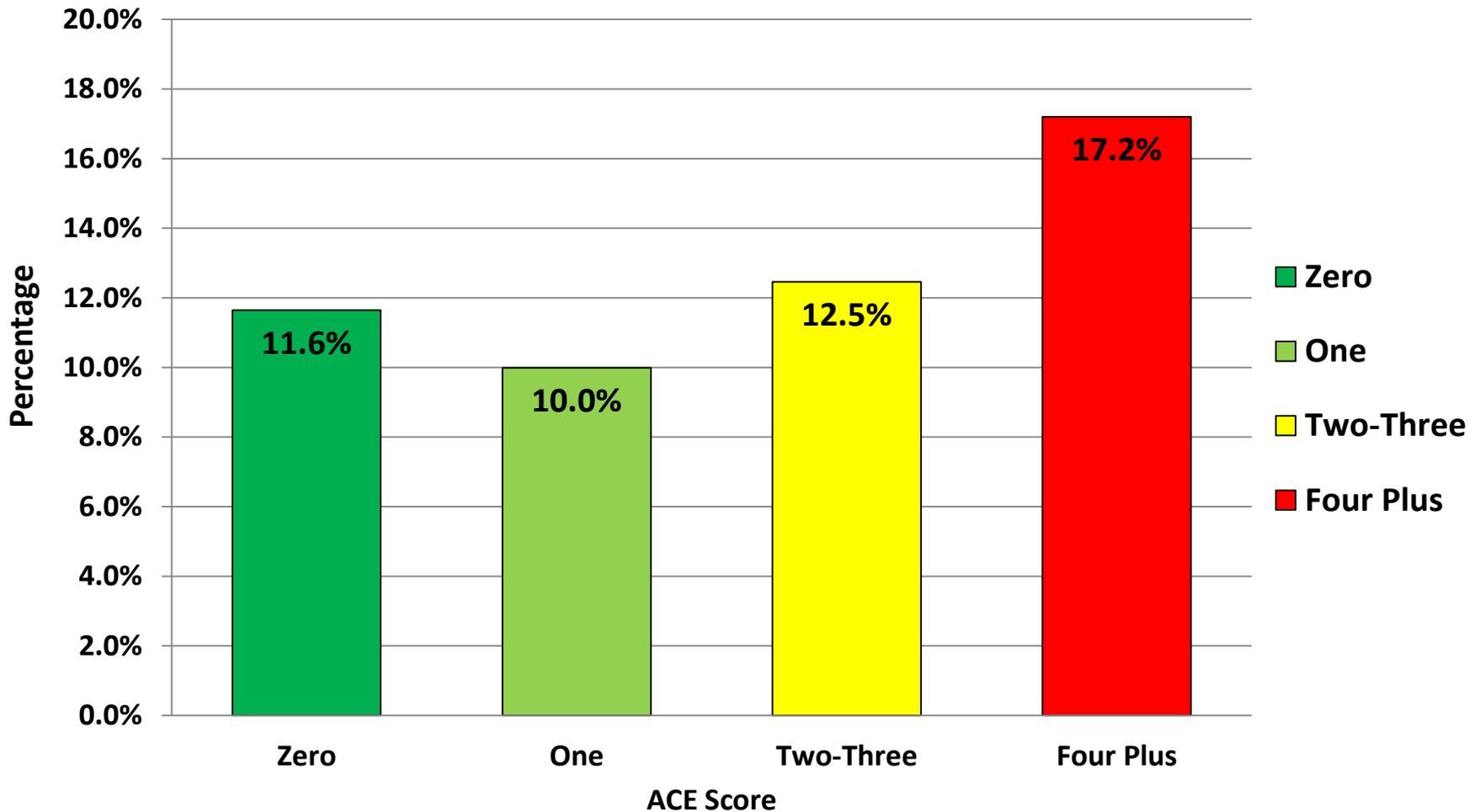
Percentage of Alaskan Adults Who Do Not Always Wear a Seat Belt by ACE Score



Percentage of Alaskan Adults who are Obese by ACE Score

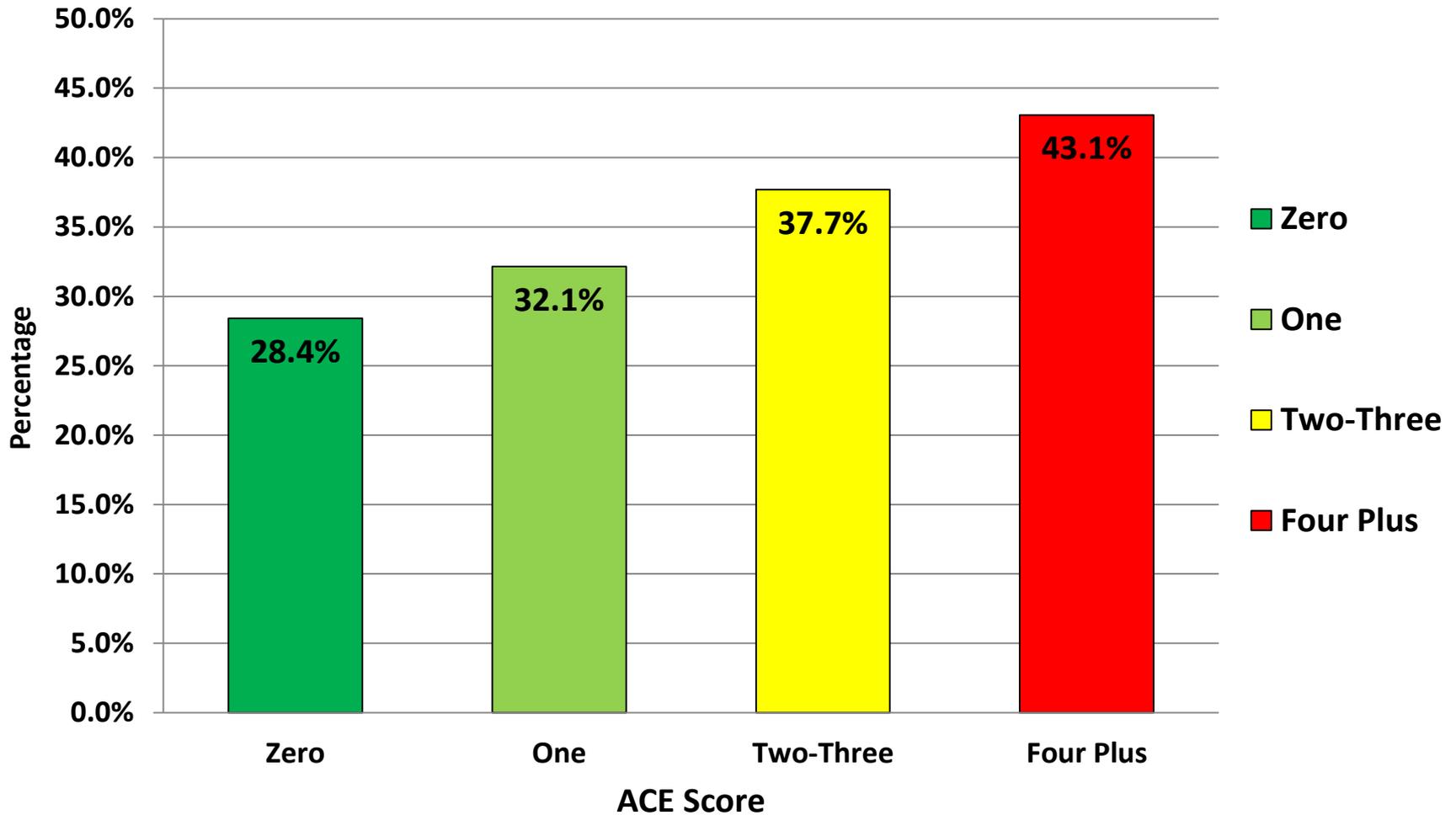


Percentage of Alaskan Adults who are Separated or Divorced by ACE Score



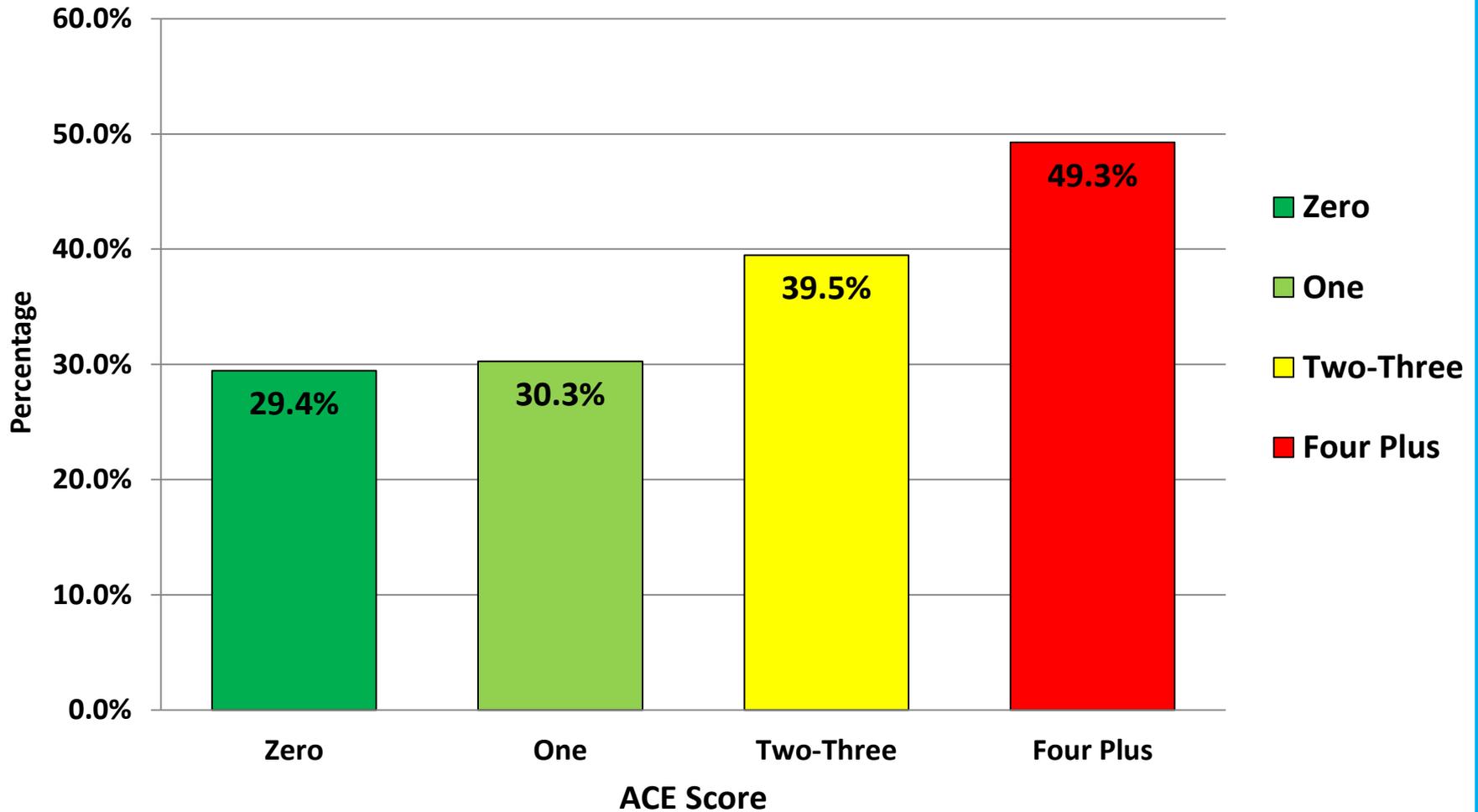
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adults who Do Not Own Their Home by ACE Score

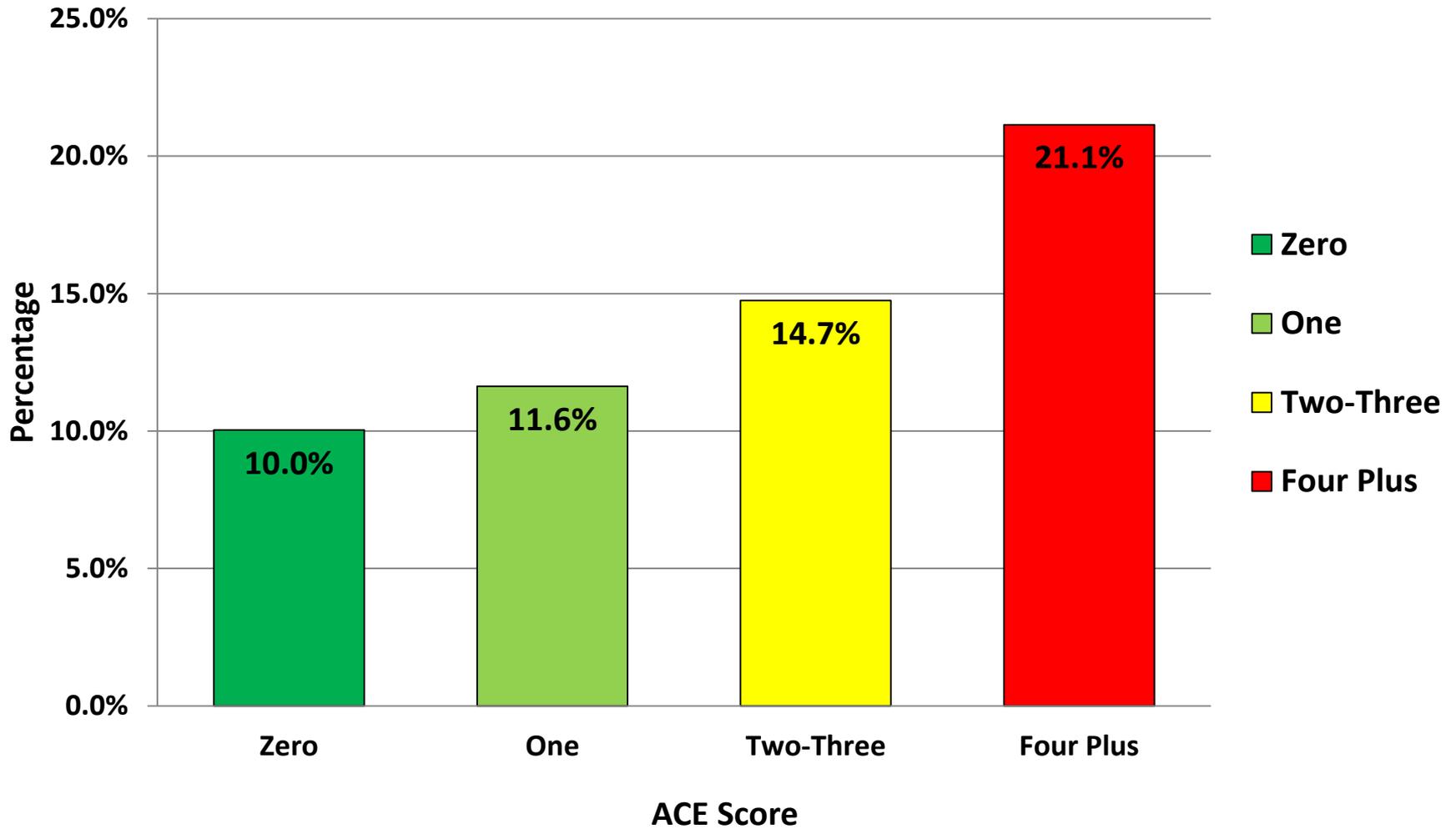


Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

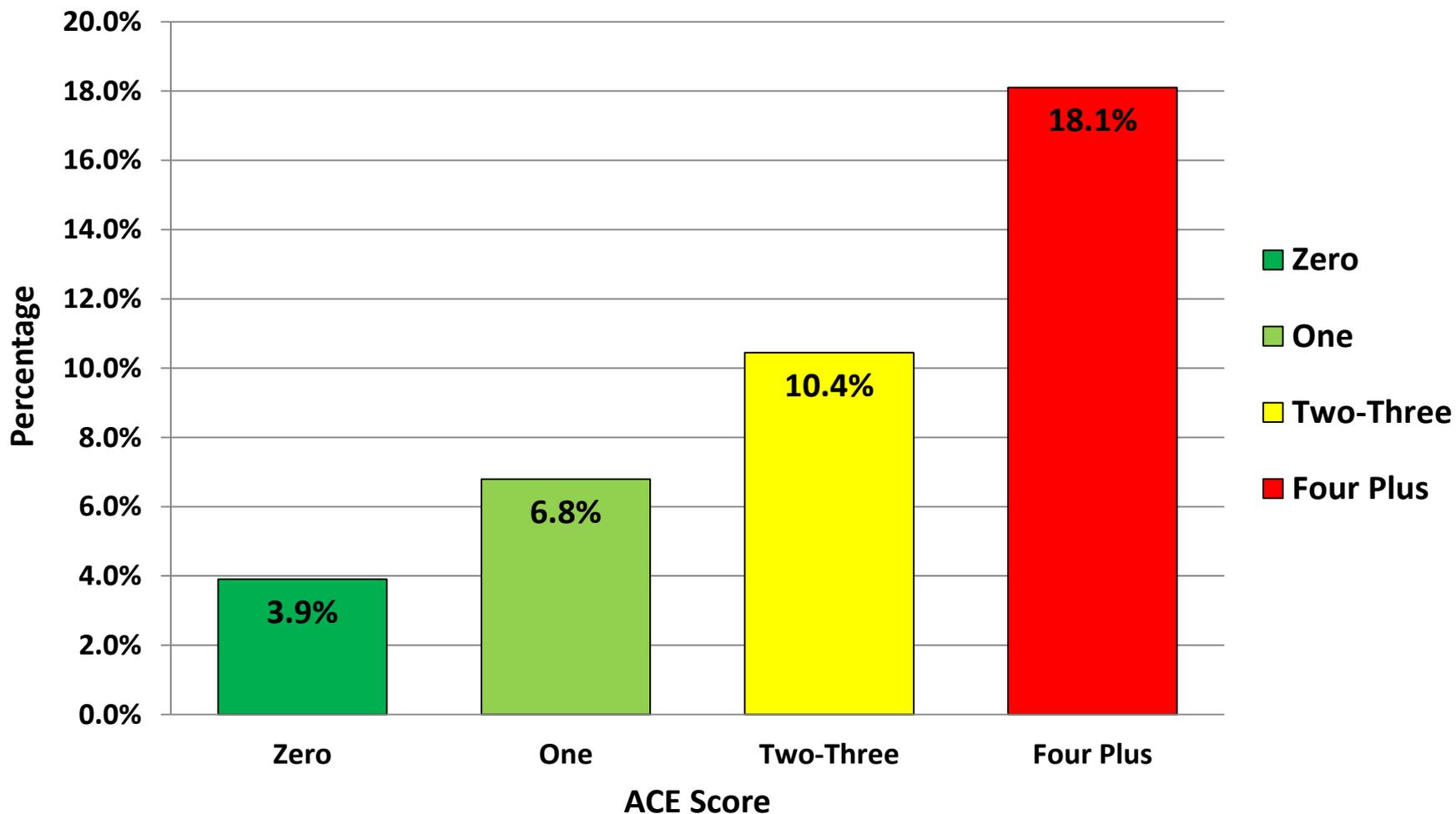
Percentage of Alaskan Adults Who Report Insufficient Sleep by ACE Score



Percentage of Alaskan Adults who Report Fair to Poor General Health by ACE Score



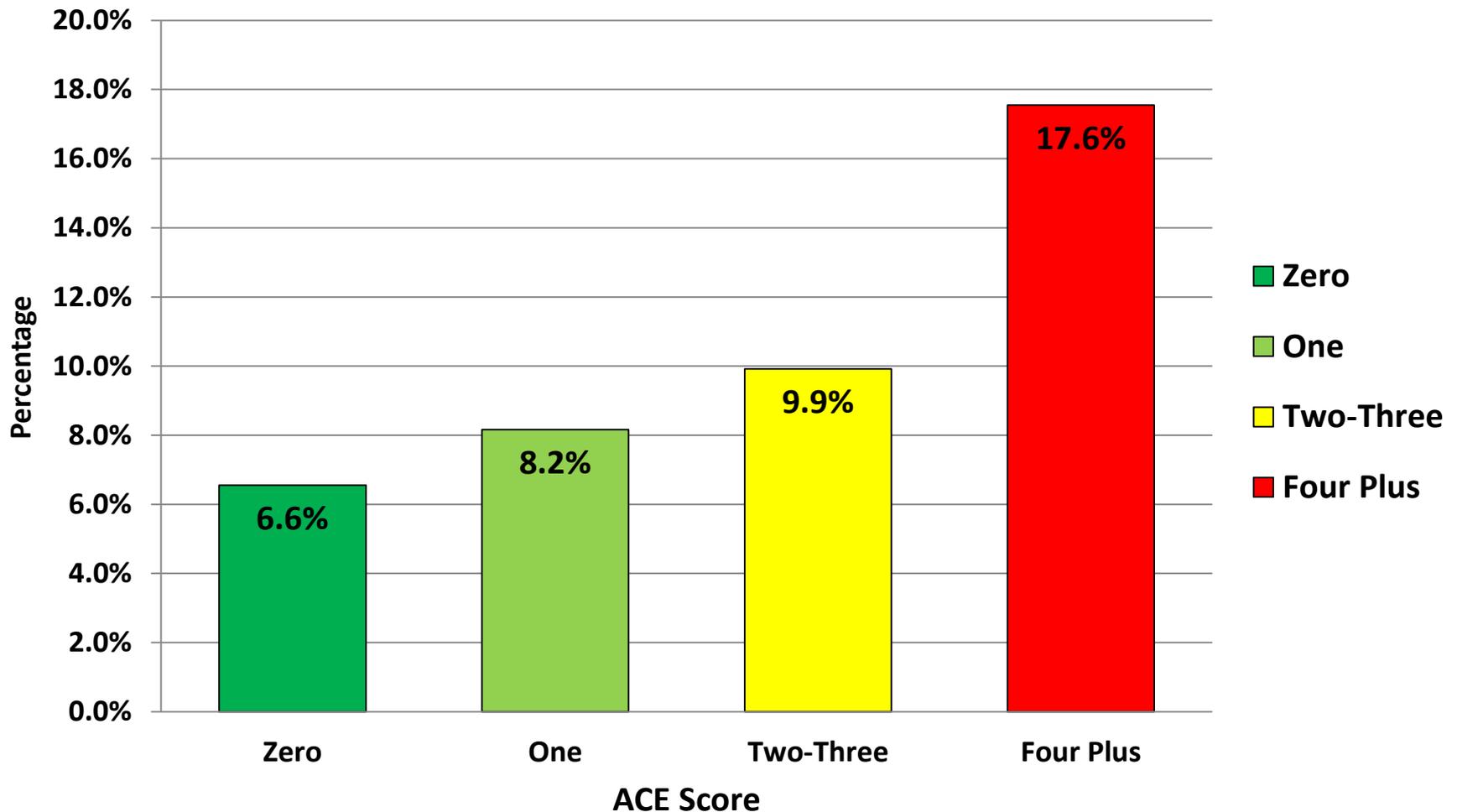
Percentage of Alaskan Adults who Reported Frequent Mental Distress* by ACE Score



*Frequent Mental Distress is defined as 14 or more days in the past 30 when stress, depression or emotional state was not good.

Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

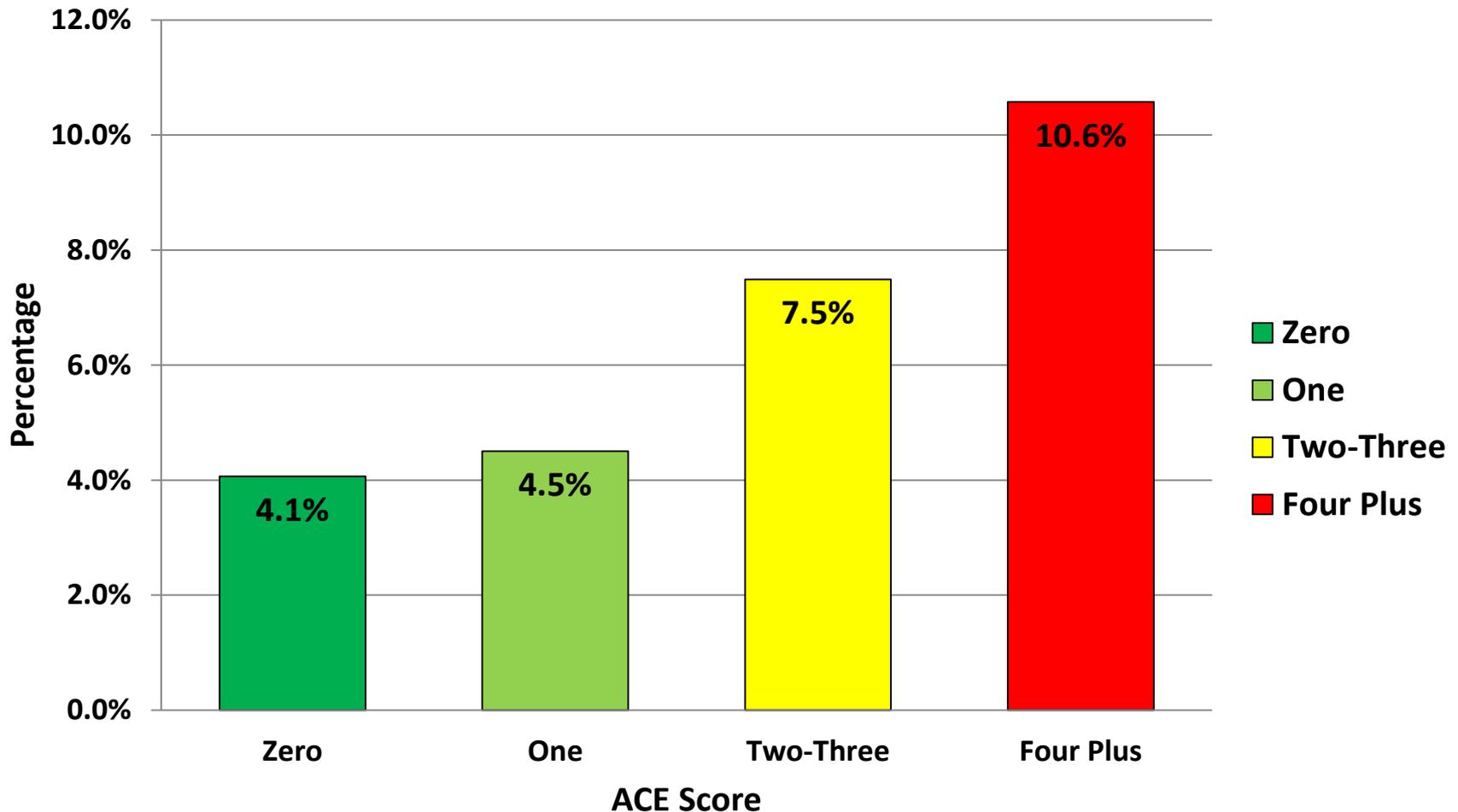
Percentage of Alaskan Adults who Reported that Their Physical Health Not Good* by ACE Score



*Physical Health Not Good is defined as 14 or more days in the past 30 when physical health was not good

Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

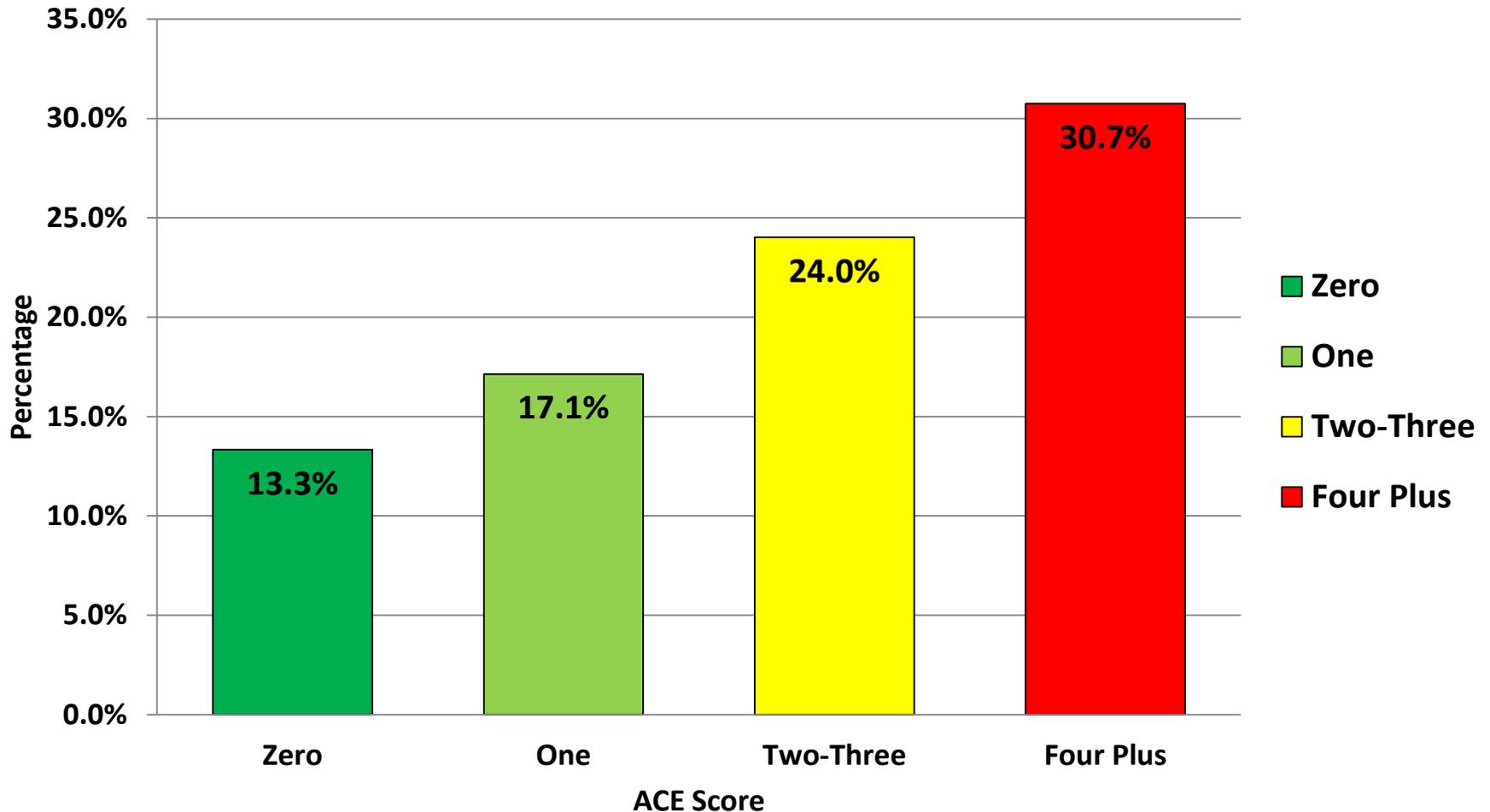
Percentage of Alaskan Adults who Reported Physical Limitations Due to Health Issues* by ACE Score



*Physical Limitations is defined as 14 or more days in the past 30 when physical health limited activities.

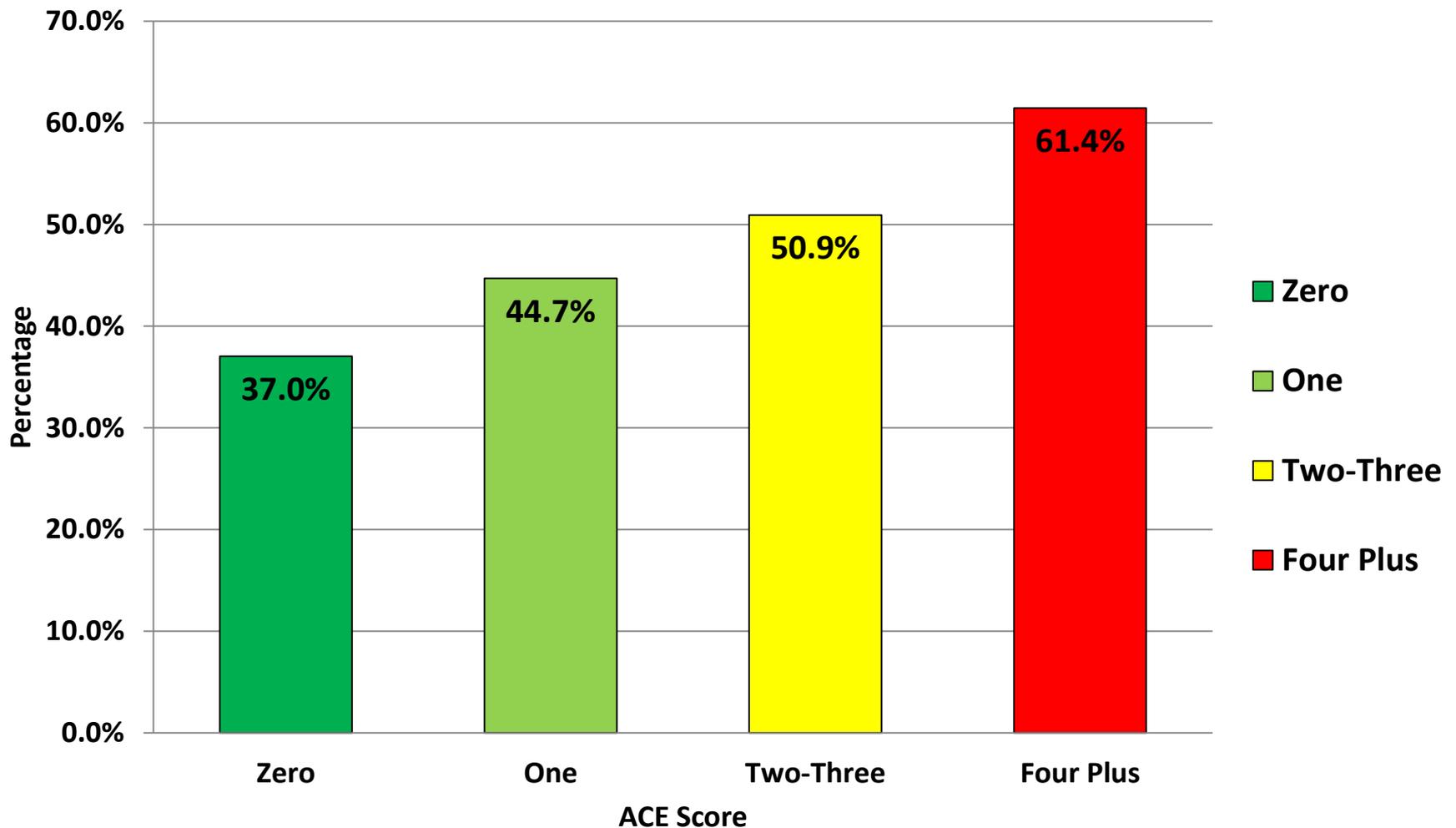
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adult Who Reported Being Current Smoker by ACE Score

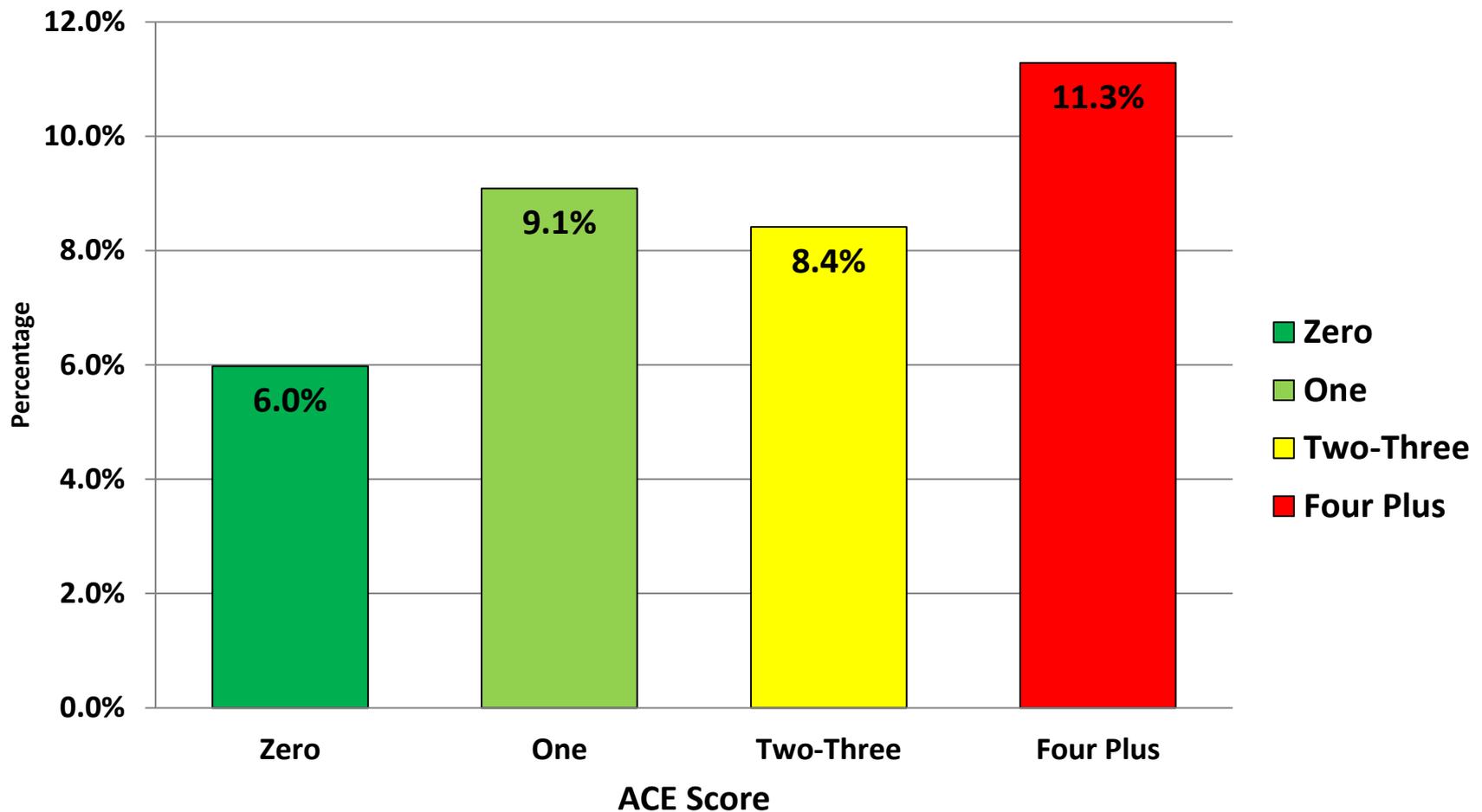


Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adults who Reported Ever Being a Smoker by ACE Score



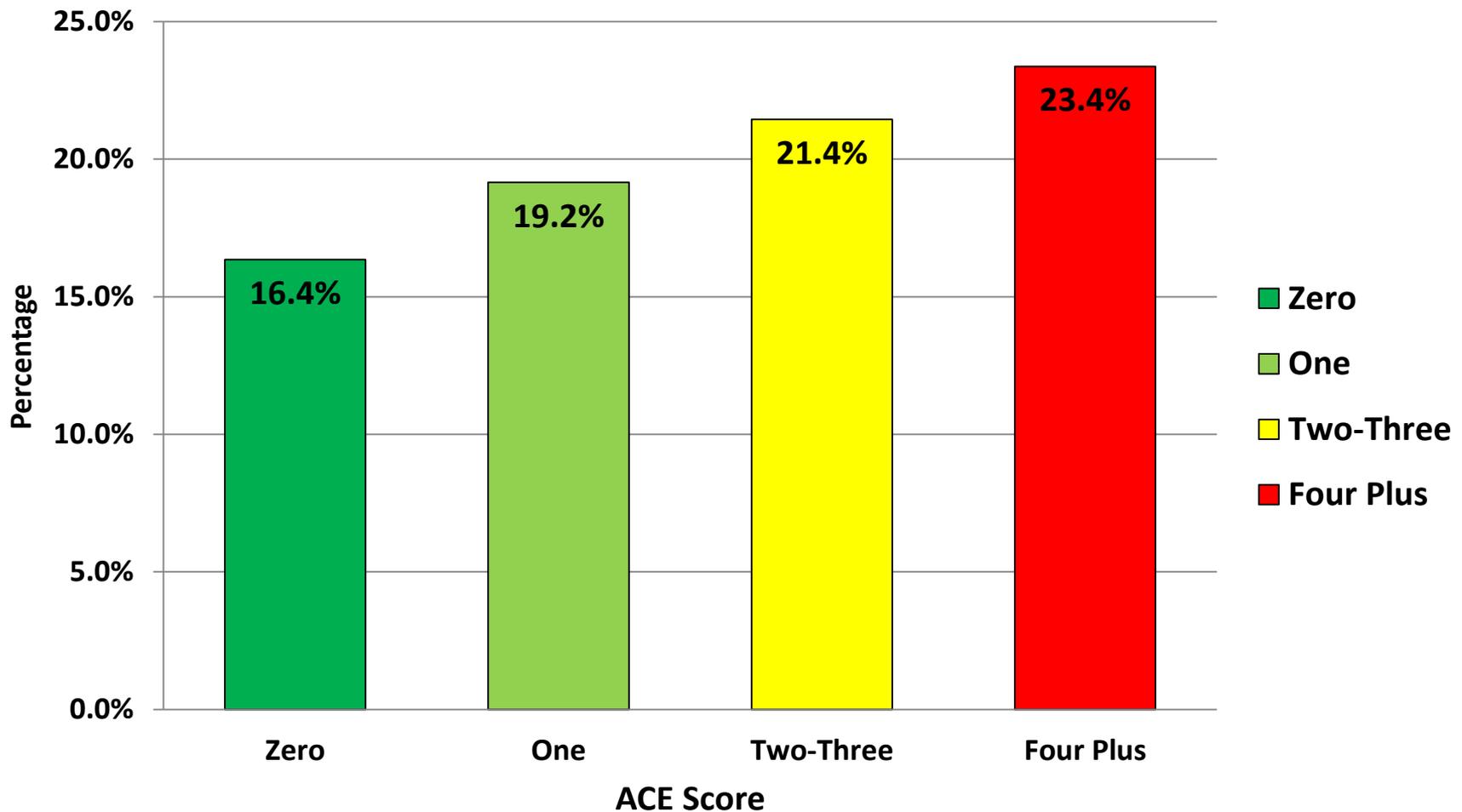
Percentage of Alaskan Adults who Reported Heavy Drinking* by ACE Score



*Heavy Drinking is defined as drinking 15 or more drinks per week for men, or 8 or more drinks per week for women

Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

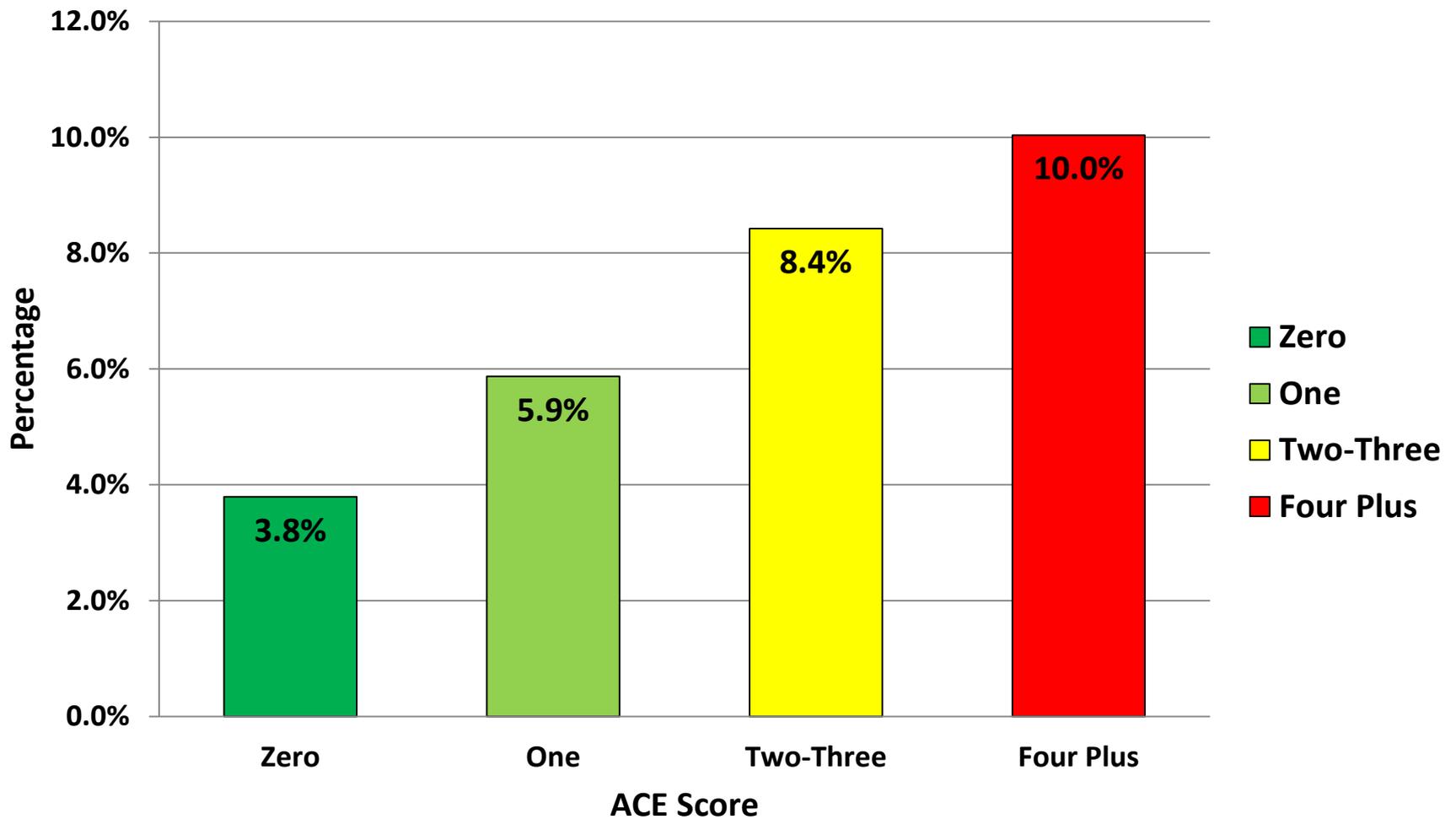
Percentage of Alaskan Adults who Reported Binge Drinking* by ACE Score



*Binge Drinking is defined as drinking 5 or more drinks on an occasion for men or 4 or more drinks on an occasion for women

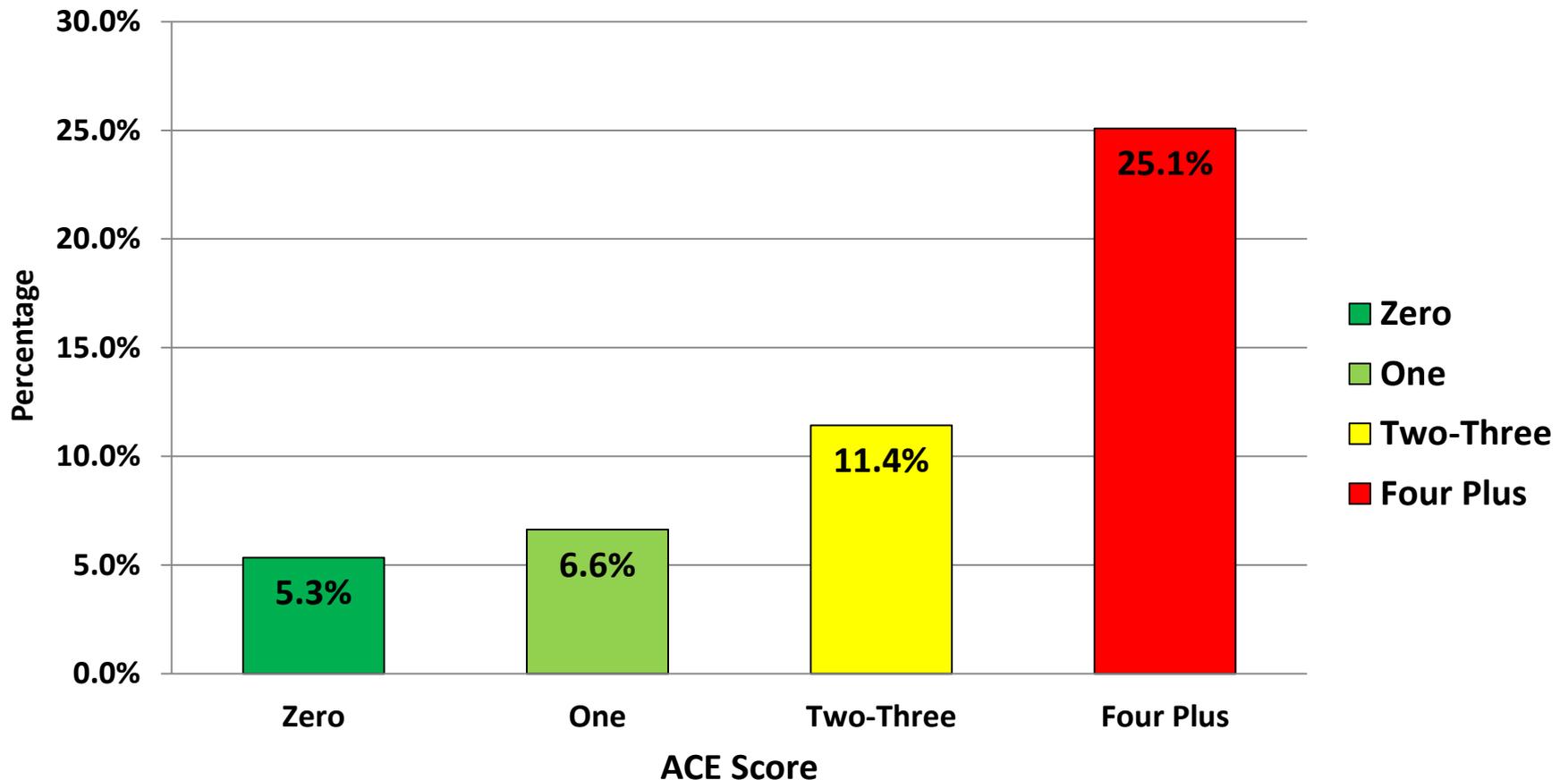
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Percentage of Alaskan Adults who Reported Using Medicaid by ACE Score



Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

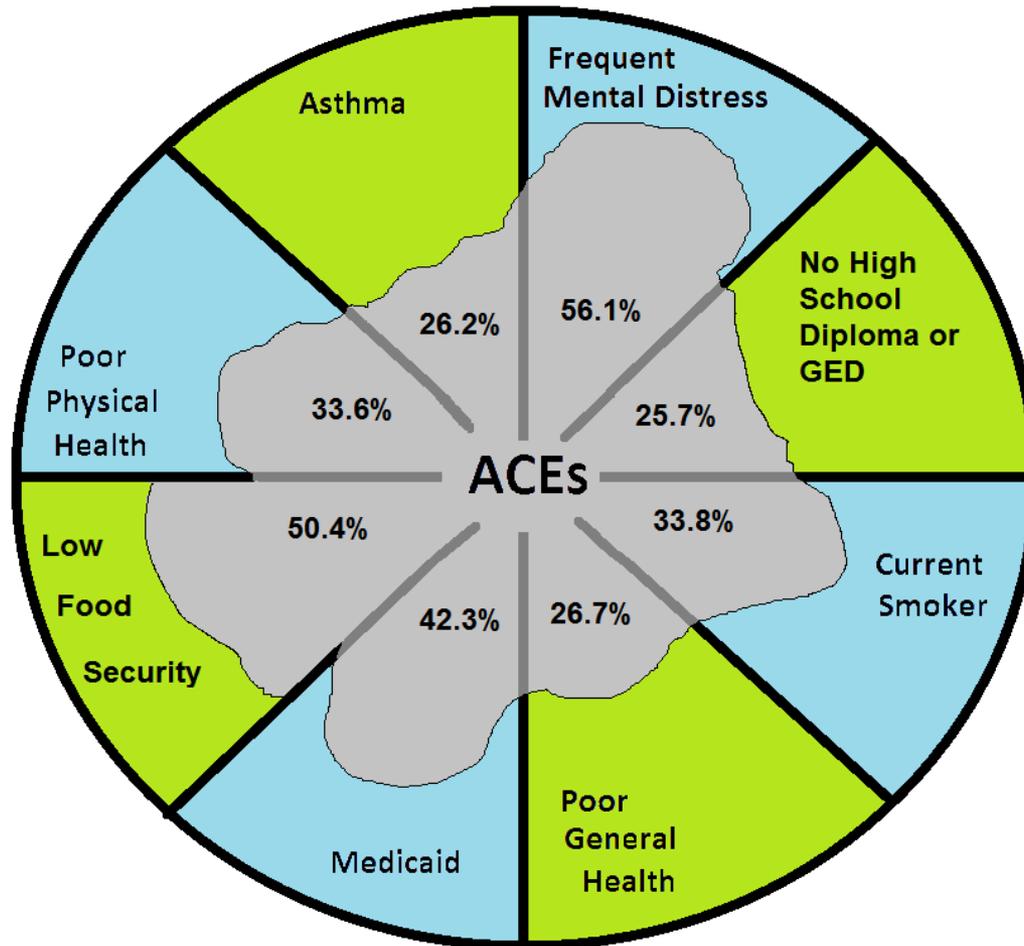
Percentage of Alaskan Adults Who Reported Low Food Security* by ACE Score



*Low Food Security is defined as sometimes, usually or always having difficulty getting enough food in the previous year.

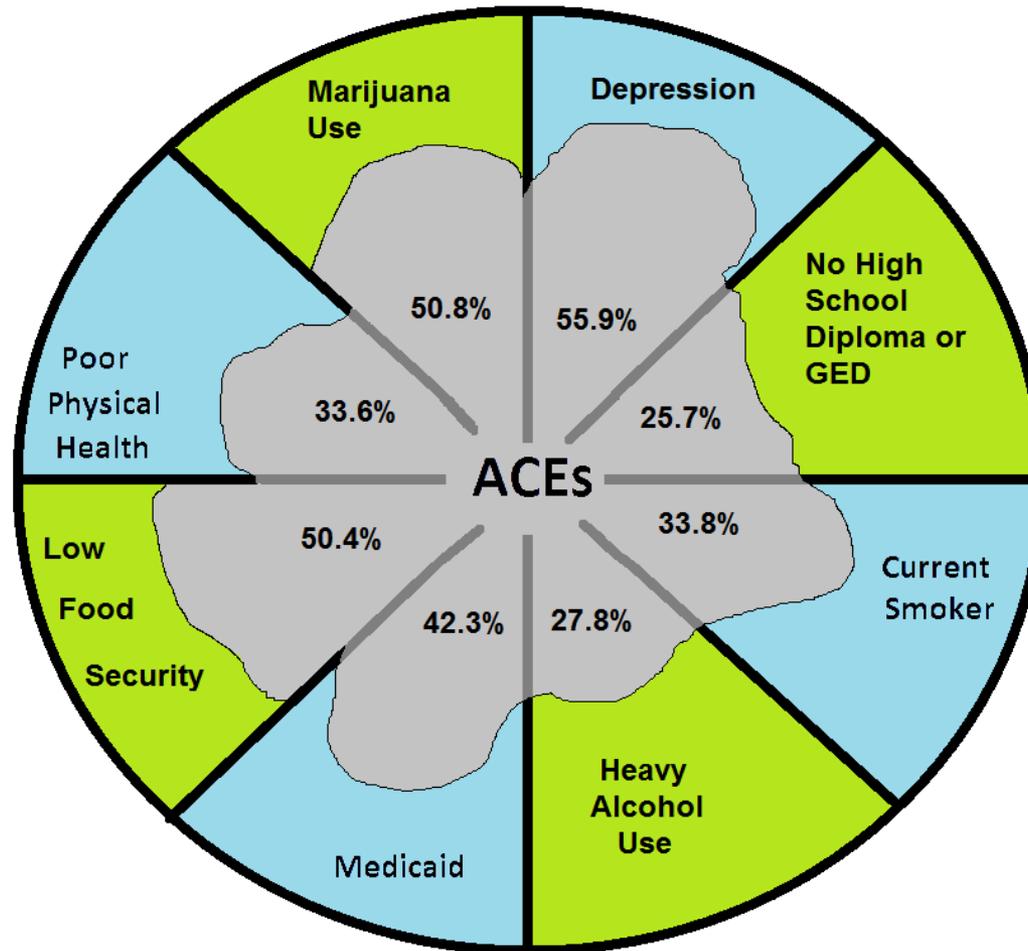
Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health

Population Attributable Fraction



Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

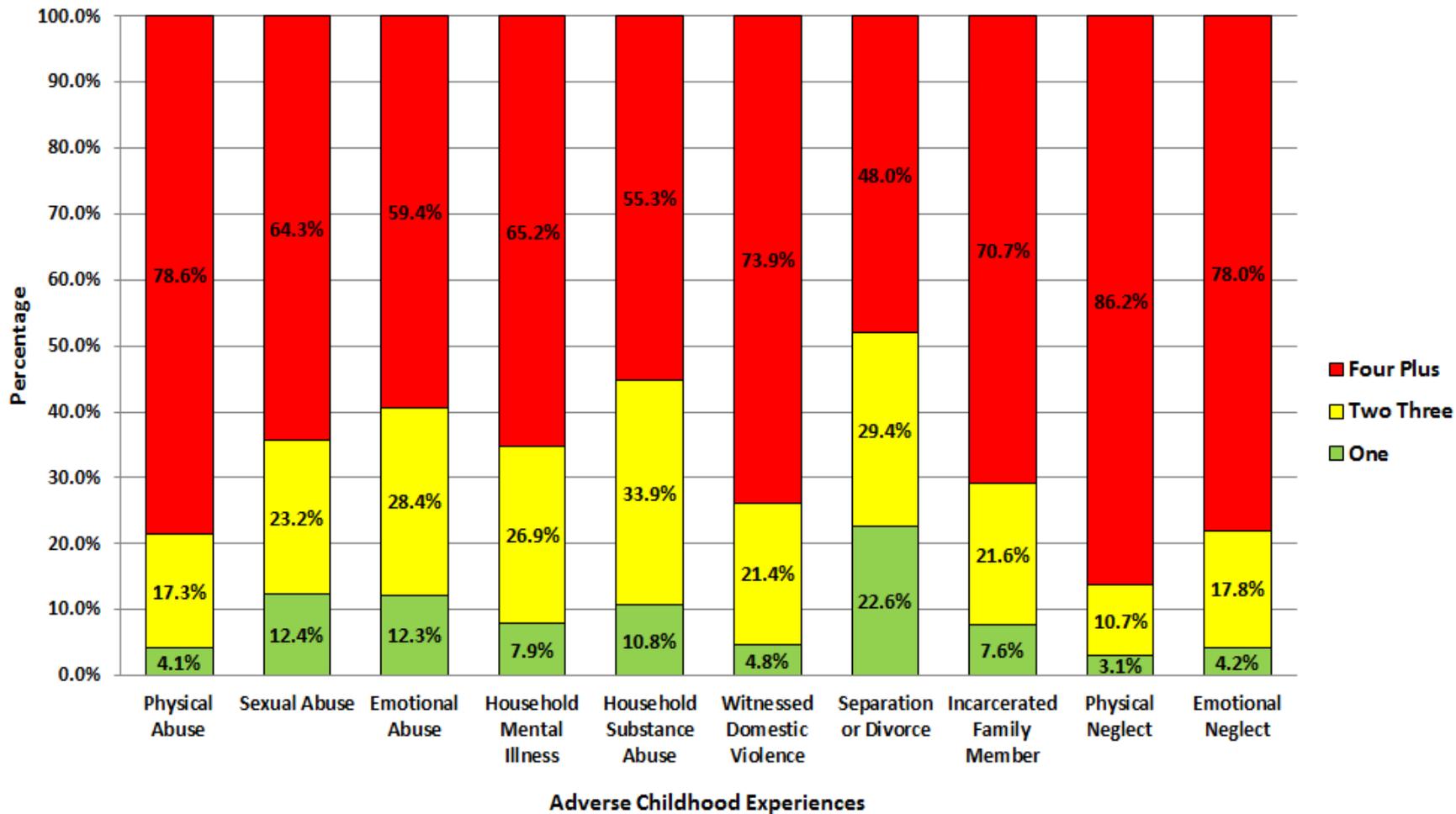
Population Attributable Fraction



Source: 2013-2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

2014-&2015 BRFSS ACE Results	Physical Abuse	Sexual Abuse	Emotional Abuse	Household Mental Illness	Household Substance Abuse	Witnessed Domestic Violence	Separation or Divorce	Incarcerated Family Member	Physical Neglect	Emotional Neglect
Physical Abuse	18.3%	37.7%	81.4%	49.3%	63.4%	51.3%	52.0%	22.7%	36.6%	48.6%
Sexual Abuse	42.9%	15.9%	60.8%	44.0%	58.3%	37.1%	44.1%	22.2%	34.2%	38.5%
Emotional Abuse	45.1%	29.6%	32.7%	40.2%	57.5%	37.4%	45.6%	19.9%	26.2%	39.8%
Household Mental Illness	42.2%	33.1%	62.1%	21.3%	64.3%	38.3%	48.3%	24.8%	29.9%	37.2%
Household Substance Abuse	33.9%	27.4%	55.5%	40.2%	34.0%	38.1%	48.6%	25.2%	23.8%	29.6%
Witnessed Domestic Violence	50.4%	32.1%	66.4%	44.0%	70.0%	18.6%	56.4%	28.7%	32.3%	39.0%
Separation or Divorce	29.5%	22.0%	46.8%	32.0%	51.6%	32.6%	31.8%	20.2%	20.0%	24.0%
Incarcerated Family Member	37.1%	31.9%	58.7%	47.4%	77.2%	47.7%	58.1%	11.2%	32.3%	33.2%
Physical Neglect	60.6%	49.7%	78.4%	57.9%	73.8%	54.4%	58.2%	32.8%	11.1%	61.9%
Emotional Neglect	57.0%	39.7%	84.3%	51.0%	65.1%	46.3%	49.5%	23.9%	43.8%	15.8%

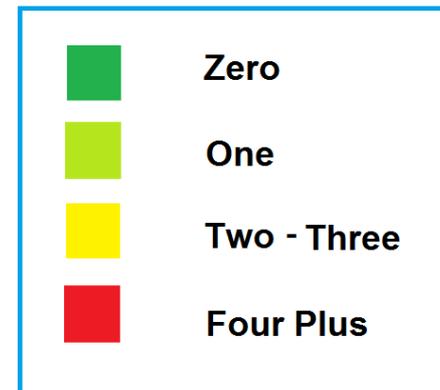
Percentage of Alaskan Adults by Three Levels of ACE Scores If They have a Specific ACE Present



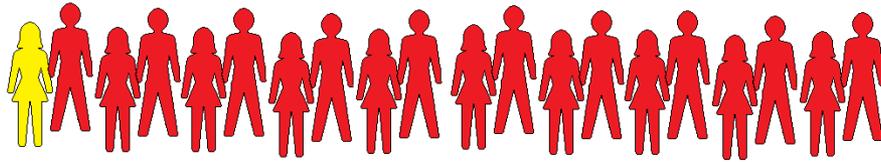
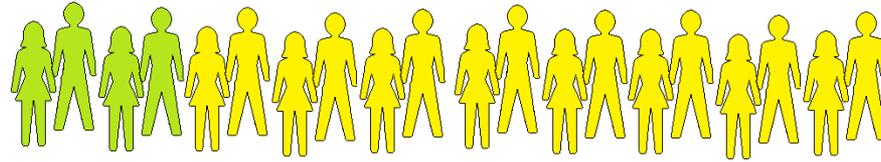
Alaskan Adult Population ACE Scores



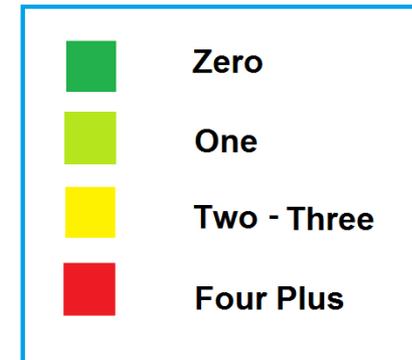
Alaska Adults 10 ACEs



Alaskan Adult Population ACE Scores if They Experienced Physical Abuse

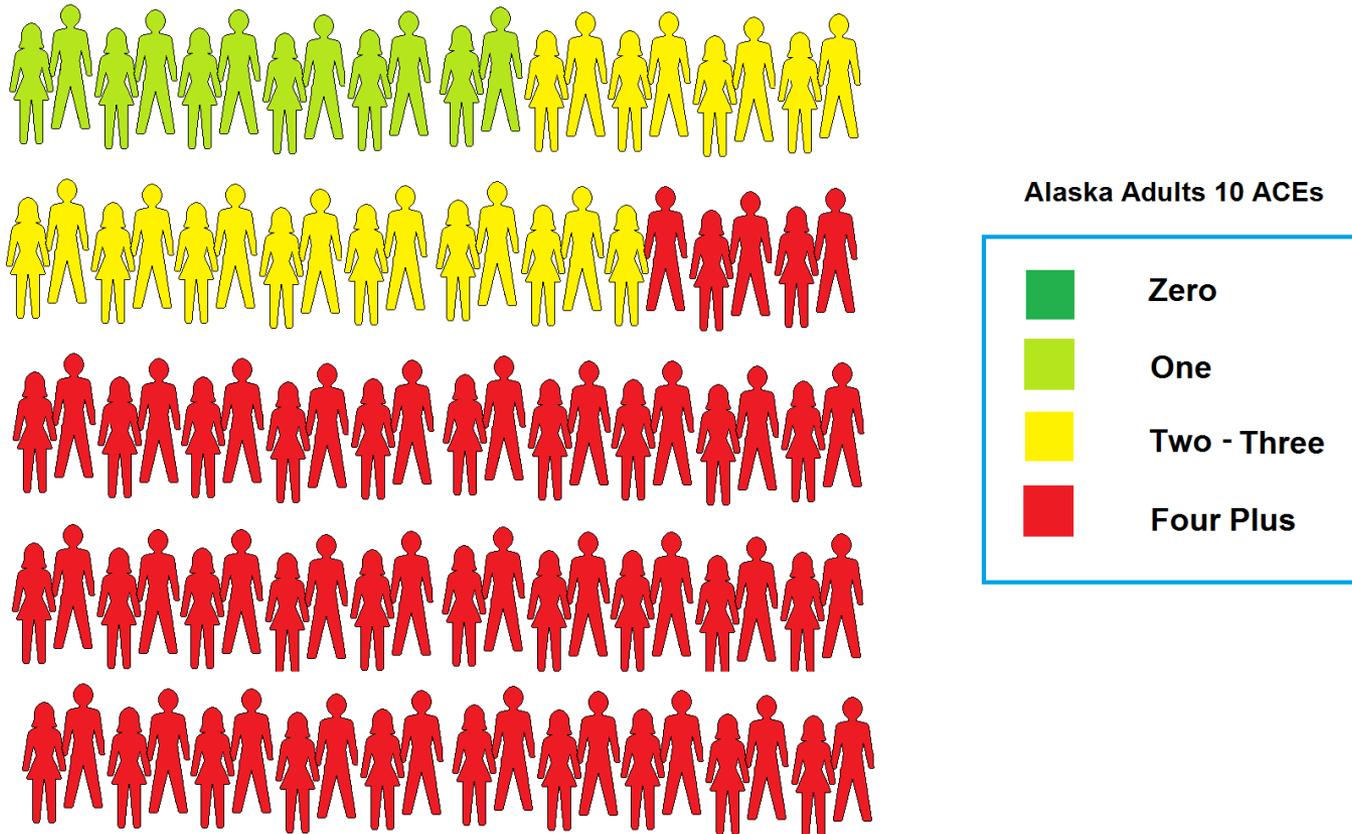


Alaska Adults 10 ACEs



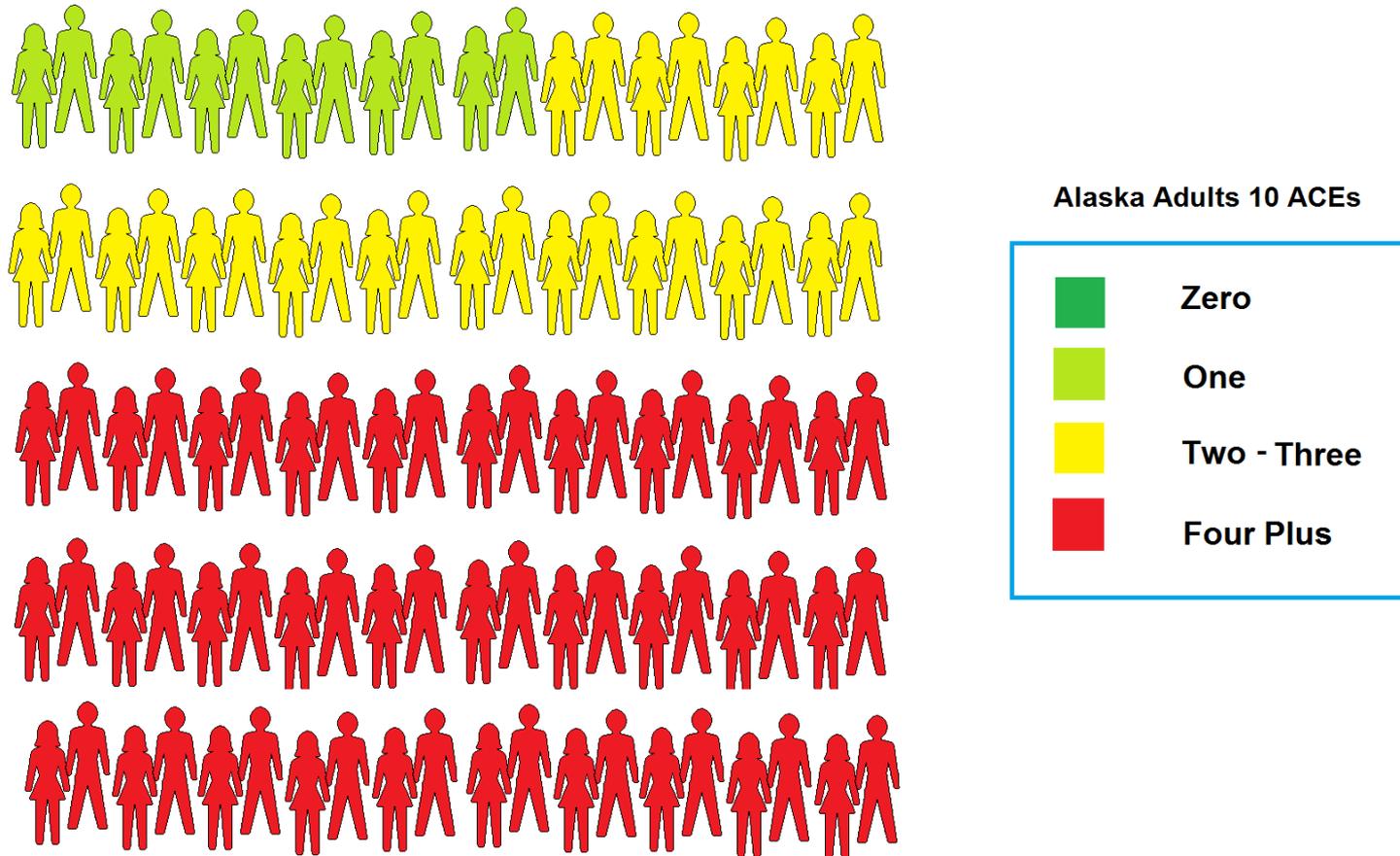
Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced Sexual Abuse



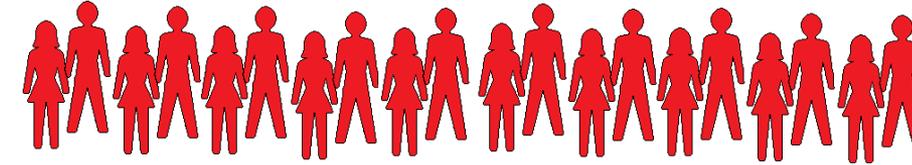
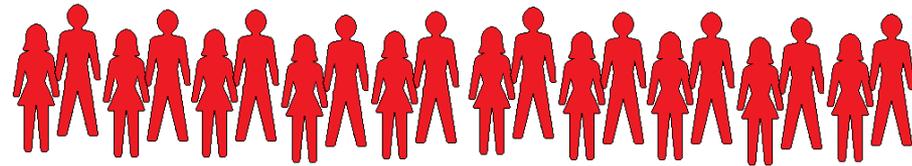
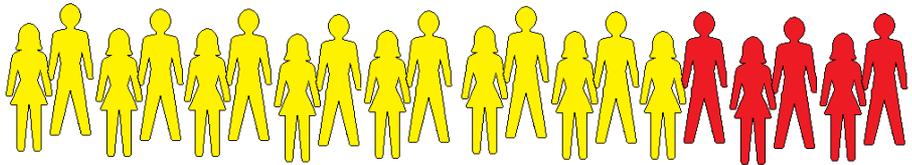
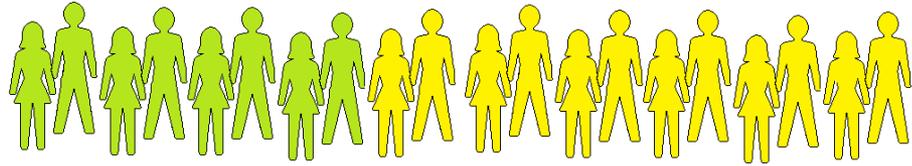
Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced Emotional Abuse

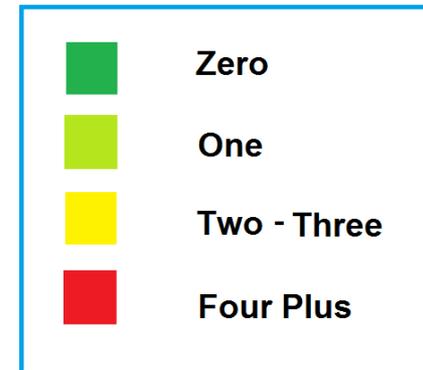


Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced Household Mental Illness

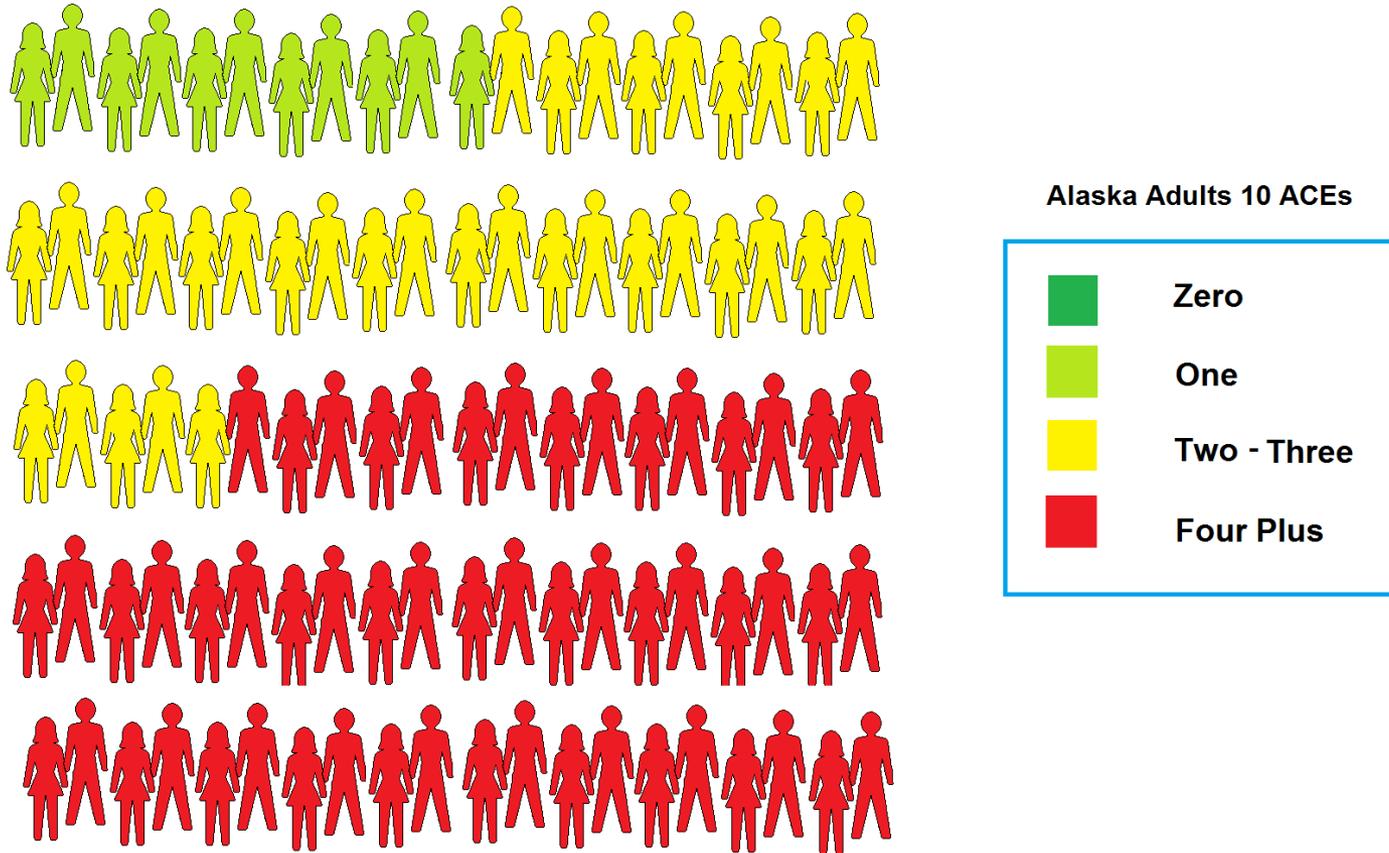


Alaska Adults 10 ACEs



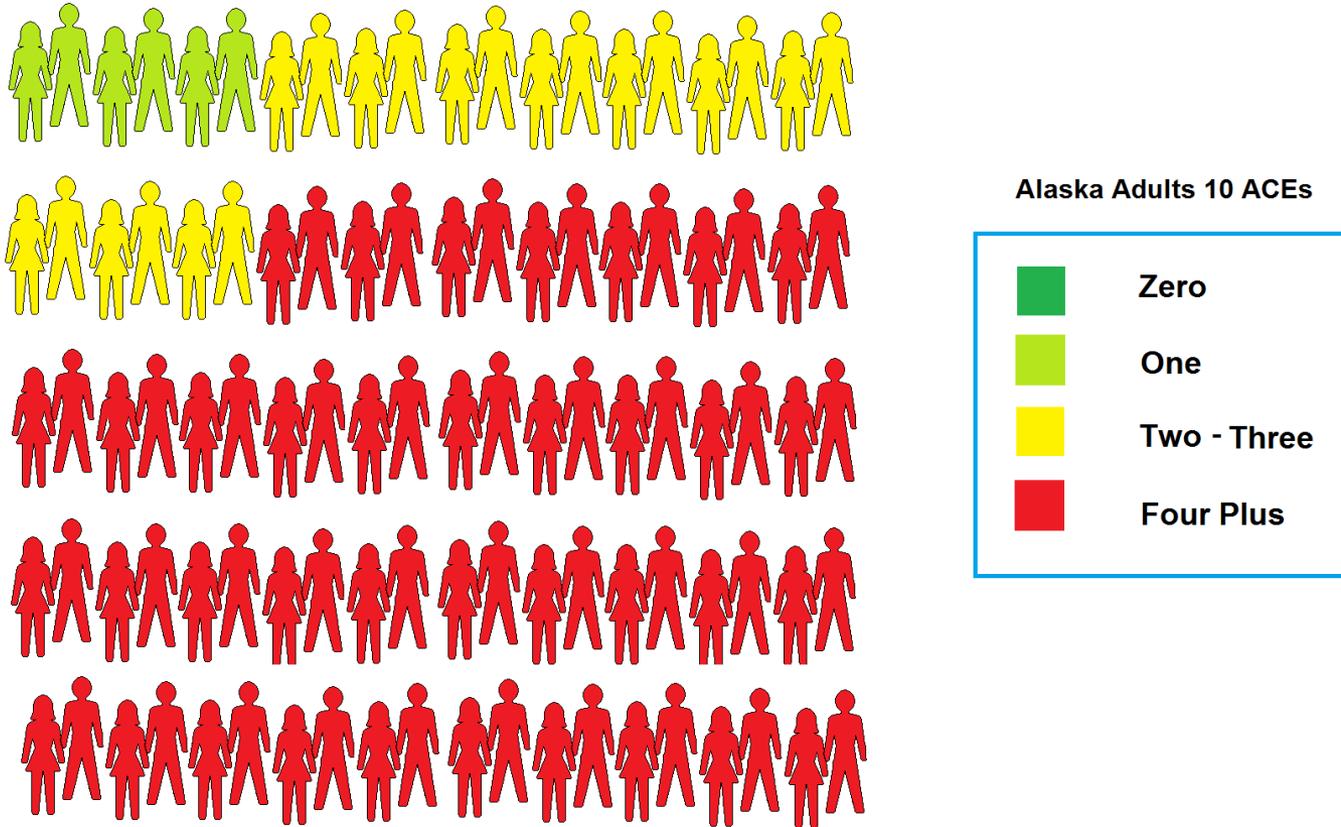
Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced Household Substance Abuse



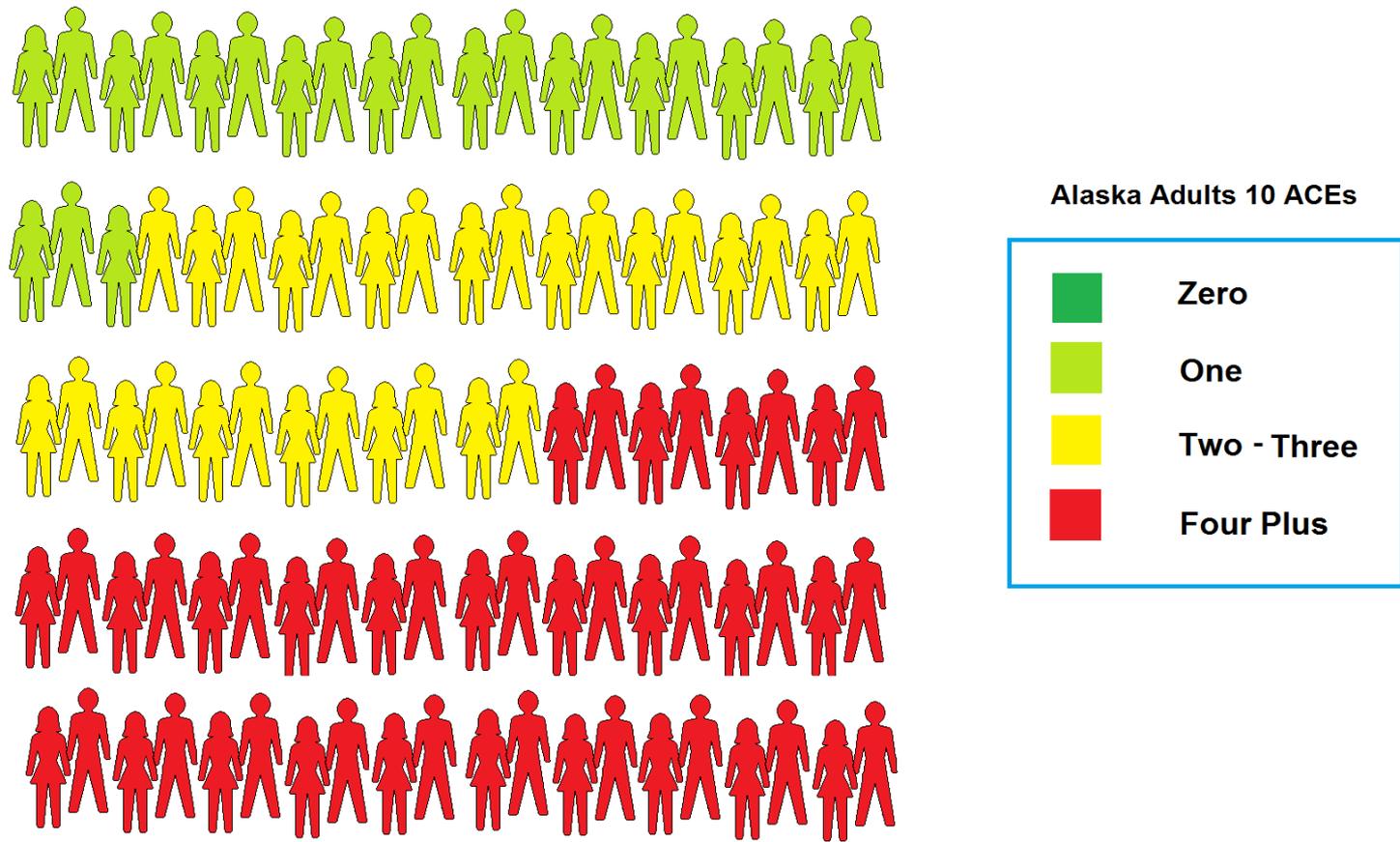
Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Witnessed Domestic Violence



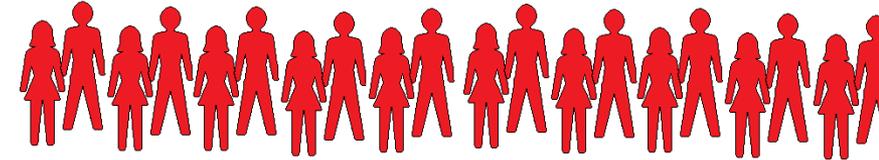
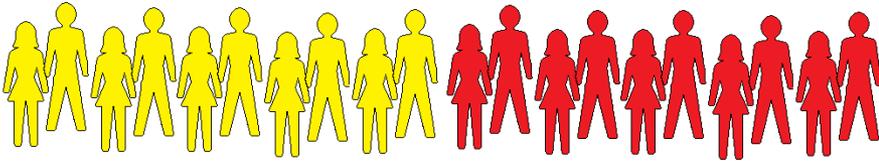
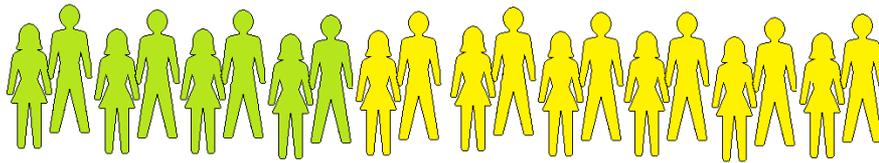
Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced a Separation or Divorce



Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced an Incarcerated Family Member

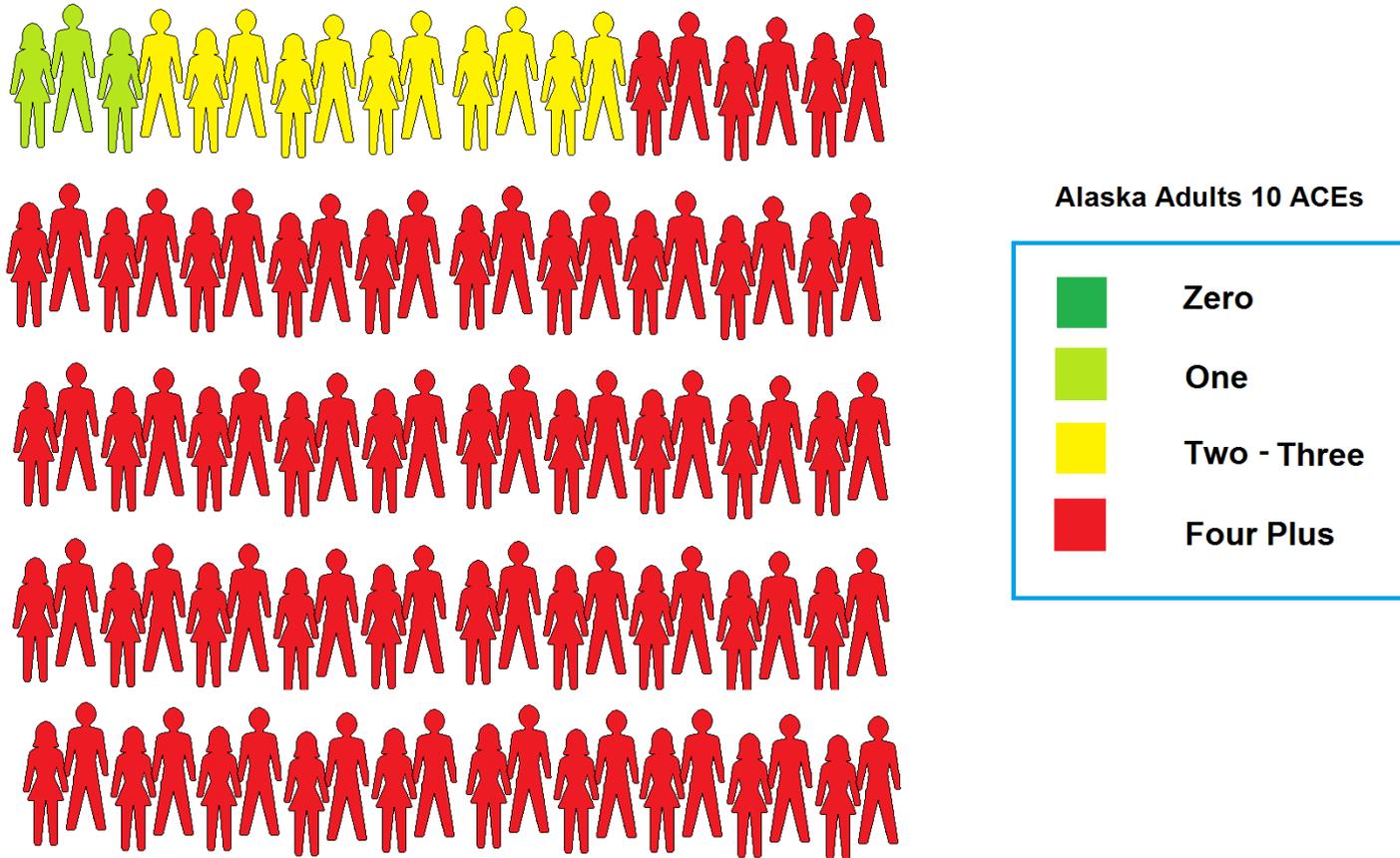


Alaska Adults 10 ACEs



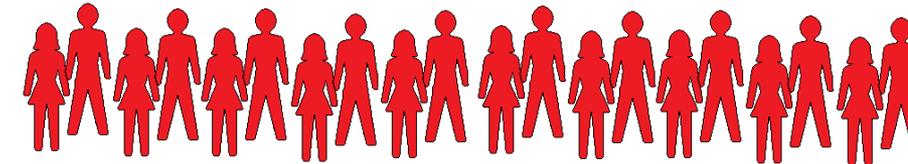
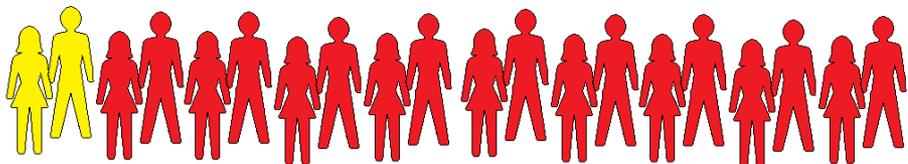
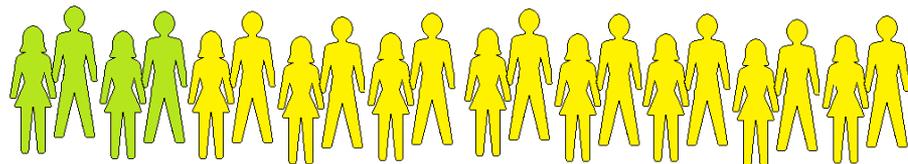
Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced Physical Neglect

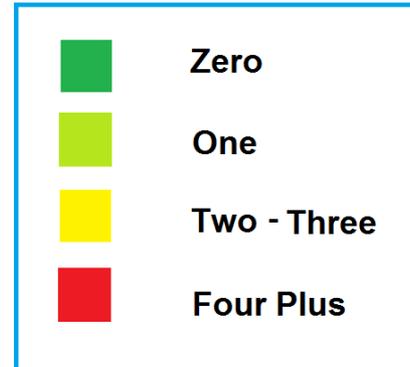


Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff

Alaskan Adult Population ACE Scores if They Experienced Emotional Neglect



Alaska Adults 10 ACEs



Source: 2014 & 2015 Alaska BRFSS, Section of Chronic Disease Prevention and Health Promotion, Alaska Division of Public Health, Graphic by Alaska Mental Health Board Staff